

# Base Station Antenna Catalogue



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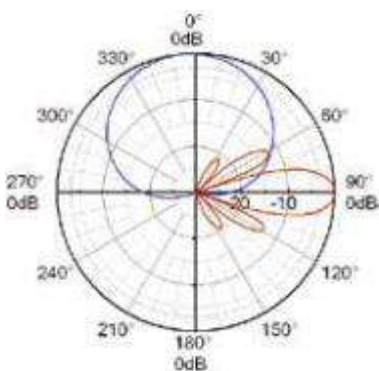
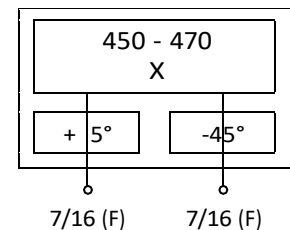
# Index

| Frequency Range (MHz)           | Pol.      | Horizontal beam width | Gain (dBi)   | Electrical downtilt      | Dimensions (H x W x D) (mm) | Page        |
|---------------------------------|-----------|-----------------------|--------------|--------------------------|-----------------------------|-------------|
| 450-470                         | +45°/-45° | 65°                   | 15           | 0°, fixed                | 2042×486×98                 | 5           |
| 806-960                         | +45°/-45° | 65°                   | 15           | 0°, fixed                | 1322×289×85                 | 6           |
|                                 | +45°/-45° | 65°                   | 15           | 3°, fixed                | 1322×289×85                 | 7           |
|                                 | +45°/-45° | 65°                   | 15           | 6°, fixed                | 1322×289×85                 | 8           |
|                                 | +45°/-45° | 65°                   | 15.3         | 0°, fixed                | 1312×295×126                | 9           |
|                                 | +45°/-45° | 65°                   | 15.3         | 6°, fixed                | 1312×295×126                | 10          |
|                                 | +45°/-45° | 65°                   | 15.5         | 0°-14°, adjustable       | 1399×289×85                 | 11          |
|                                 | +45°/-45° | 65°                   | 17           | 0°, fixed                | 1932×289×85                 | 12          |
|                                 | +45°/-45° | 65°                   | 17           | 3°, fixed                | 1932×289×85                 | 13          |
|                                 | +45°/-45° | 65°                   | 17.3         | 0°, fixed                | 1972×295×126                | 14          |
|                                 | +45°/-45° | 65°                   | 17.5         | 2°-9.5°, adjustable      | 2516×295×95                 | 15          |
|                                 | +45°/-45° | 65°                   | 18           | 0°, fixed                | 2572×289×85                 | 16          |
|                                 | +45°/-45° | 65°                   | 18           | 3°, fixed                | 2572×289×85                 | 17          |
|                                 | +45°/-45° | 65°                   | 18           | 6°, fixed                | 2572×289×85                 | 18          |
|                                 | +45°/-45° | 65°                   | 18.2         | 0°, fixed                | 2532×295×126                | 19          |
|                                 | +45°/-45° | 65°                   | 18.2         | 6°, fixed                | 2532×295×126                | 20          |
|                                 | +45°/-45° | 90°                   | 17           | 0°, fixed                | 2526×268×125                | 21          |
|                                 | +45°/-45° | 90°                   | 17           | 2°-9.5°, adjustable      | 2526×268×125                | 22          |
|                                 | 890-960   | +45°/-45°             | 65°          | 18                       | 0°, fixed                   | 2572×289×85 |
| 1710-2170                       | +45°/-45° | 33°                   | 21           | 2°-10°, adjustable       | 1318×289×85                 | 24          |
|                                 | +45°/-45° | 65°                   | 18           | 0°, fixed                | 1306×155×79                 | 25          |
|                                 | +45°/-45° | 65°                   | 18           | 2°, fixed                | 1306×155×79                 | 26          |
|                                 | +45°/-45° | 65°                   | 18           | 3°, fixed                | 1306×155×79                 | 27          |
|                                 | +45°/-45° | 65°                   | 18           | 6°, fixed                | 1306×155×79                 | 28          |
|                                 | +45°/-45° | 65°                   | 18           | 2°-10°, adjustable       | 1306×155×79                 | 29          |
|                                 | +45°/-45° | 65°                   | 19.5         | 2°-8°, adjustable        | 1940×155×79                 | 30          |
|                                 | +45°/-45° | 65°                   | 21           | 0°, fixed                | 2170×155×79                 | 31          |
|                                 | +45°/-45° | 90°                   | 17           | 0°, fixed                | 1190×176×69                 | 32          |
|                                 | +45°/-45° | 90°                   | 17           | 2°, fixed                | 1190×176×69                 | 33          |
|                                 | +45°/-45° | 90°                   | 17           | 6°, fixed                | 1190×176×69                 | 34          |
|                                 | +45°/-45° | 90°                   | 17           | 2°-10°, adjustable       | 1306×155×79                 | 35          |
| 824-960 /1710-2170              | +45°/-45° | 65°                   | 15/17.5      | 0°-14°/0°-8°, adjustable | 1390×368×99                 | 36          |
|                                 | +45°/-45° | 65°                   | 15/18        | 0°-14°/0°-8°, adjustable | 1390×368×99                 | 37          |
|                                 | +45°/-45° | 65°                   | 16/17.5      | 0°-8°/0°-8°, adjustable  | 1925×368×99                 | 38          |
|                                 | +45°/-45° | 65°                   | 16/18        | 0°-8°/0°-8°, adjustable  | 1925×368×99                 | 39          |
|                                 | +45°/-45° | 65°                   | 17/17.5      | 0°-8°/0°-8°, adjustable  | 2449×368×99                 | 40          |
|                                 | +45°/-45° | 65°                   | 17.5/18      | 0°-10°/0°-8°, adjustable | 2449×368×99                 | 41          |
| 1710-2170/1710-2170             | +45°/-45° | 65°                   | 18/18        | 2°-10°, adjustable       | 1306×326×79                 | 42          |
| 824-960/1710-2170/<br>1710-2170 | +45°/-45° | 65°                   | 16.5/16.5/16 | 0°-8°/0°-8°, adjustable  | 1925×368×99                 | 43          |
|                                 | +45°/-45° | 65°                   | 17.5/17.5/17 | 0°-8°/0°-8°, adjustable  | 2449×368×99                 | 44          |

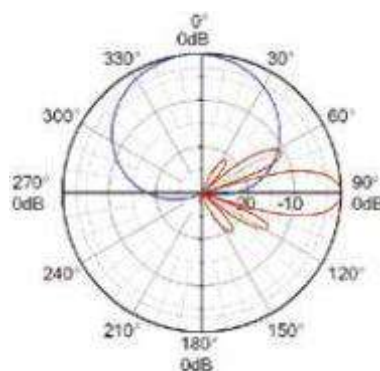
# DX-450-470-65-15i-0F

| Electrical Properties        |                              |
|------------------------------|------------------------------|
| Frequency range (MHz)        | 450-470                      |
| Polarization                 | ±45°                         |
| VSWR                         | ≤1.5                         |
| Gain (dBi)                   | 15                           |
| 3dB beamwidth (horizontal)   | 65°                          |
| 3dB beamwidth (vertical)     | 16°                          |
| Isolation between ports (dB) | ≥30                          |
| Front to back ratio (dB)     | ≥25                          |
| Cross polar ratio(dB)        | ≥15                          |
| Electrical downtilt          | 0°                           |
| Intermodulation IM5 (dBc)    | ≤-160 ( 2 × 43 dBm carrier ) |
| Max. CW input power (W)      | 500                          |
| Impedance (Ω)                | 50                           |
| Grounding                    | DC ground                    |

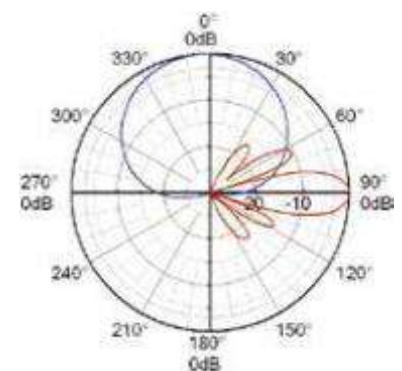
| Mechanical Properties           |                   |
|---------------------------------|-------------------|
| Dimensions (H×W×D) (mm)         | 2042×486×98       |
| Packing dimensions (H×W×D) (mm) | 2271×596×261      |
| Net weight (kg)                 | 28.3              |
| Bracket weight (kg)             | 6.5               |
| Packing weight (kg)             | 42.2              |
| Mechanical downtilt             | 0° - 16°          |
| Mast diameter (mm)              | 50 - 115          |
| Radome material                 | Fiberglass        |
| Operating temperature (°C)      | - 55 - + 65       |
| Windload frontal (N)            | 740(v=150km/h)    |
| Windload lateral (N)            | 220 (v=150km/h)   |
| Windload rearside (N)           | 1100 (v=150km/h)  |
| Max. wind velocity (km/h)       | 200               |
| Connector                       | 2×7/16 DIN Female |



450 - 460 MHz



455 - 465 MHz

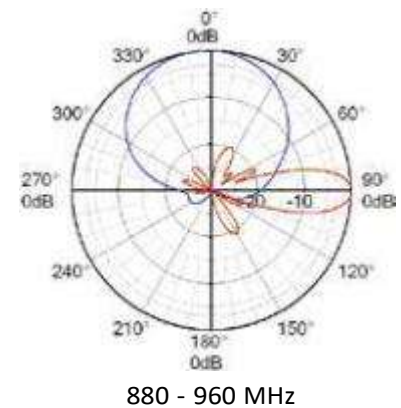
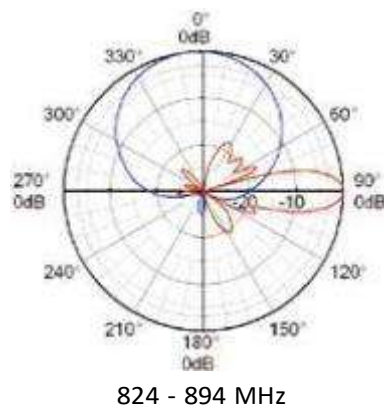
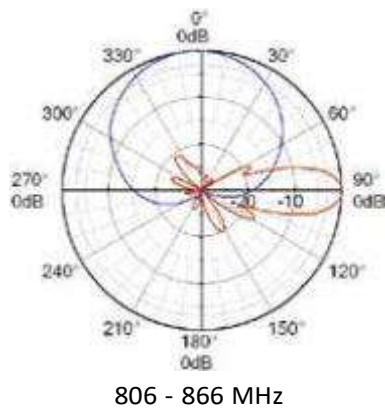
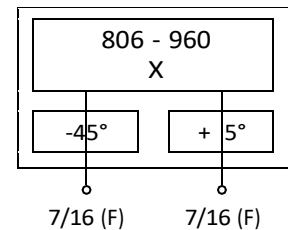


460 - 470 MHz

# DX-806-960-65-15i-0F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.4                         |         |         |
| Gain (dBi)   | 14.6                         | 14.8    | 15.0    |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                   | 67°                          | 65°     | 62°     |
| 3dB beamwidth (vertical)                                     | 15.5°                        | 14.6°   | 14.0°   |
| Isolation between ports (dB)                                 | ≥30                          |         |         |
| Front to back ratio (dB)                                     | ≥25                          |         |         |
| Cross polar ratio(dB)  | ≥15                          |         |         |
| Electrical downtilt  | 0°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

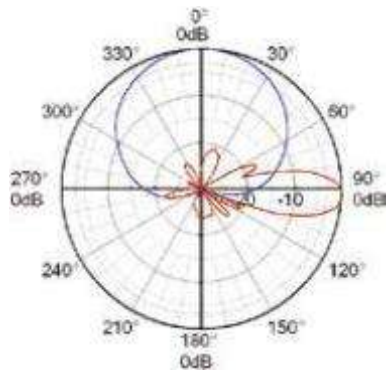
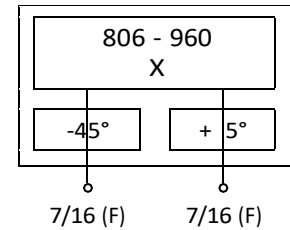
| Mechanical Properties               |                     |
|-------------------------------------|---------------------|
| Dimensions (H × W × D) (mm)         | 1322 × 289 × 85     |
| Packing dimensions (H × W × D) (mm) | 1662 × 405 × 175    |
| Net weight (kg)                     | 9.5                 |
| Bracket weight (kg)                 | 4.6                 |
| Packing weight (kg)                 | 18                  |
| Mechanical downtilt                 | 0° - 16°            |
| Mast diameter (mm)                  | 50 - 115            |
| Radome material                     | Fiberglass          |
| Operating temperature (°C)          | - 55 - + 65         |
| Windload frontal (N)                | 290 (v=150km/h)     |
| Windload lateral (N)                | 130 (v=150km/h)     |
| Windload rearside (N)               | 430 (v=150km/h)     |
| Max. wind velocity (km/h)           | 200                 |
| Connector                           | 2 × 7/16 DIN Female |



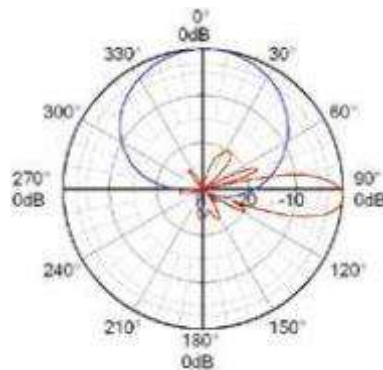
# DX-806-960-65-15i-3F

| Electrical Properties                                      |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)                                      | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.5                         |         |         |
| Gain (dBi)   | 14.7                         | 15.0    | 15.3    |
| Side lobe suppression for 1st side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                 | 67°                          | 65°     | 62°     |
| 3dB beamwidth (vertical)                                   | 15.5°                        | 14.6°   | 14.0°   |
| Isolation between ports (dB)                               | ≥28                          |         |         |
| Front to back ratio, (dB)                                  | ≥25                          |         |         |
| Cross polar ratio(dB)                                      | ≥15                          |         |         |
| Electrical downtilt  | 3°                           |         |         |
| Intermodulation IM3 (dBc)                                  | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                    | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

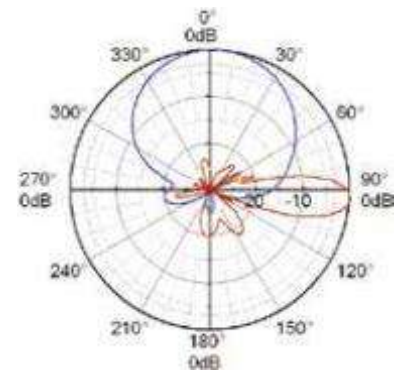
| Mechanical Properties               |                     |
|-------------------------------------|---------------------|
| Dimensions (H × W × D) (mm)         | 1322 × 289 × 85     |
| Packing dimensions (H × W × D) (mm) | 1662 × 405 × 175    |
| Net weight (kg)                     | 9.5                 |
| Bracket weight (kg)                 | 4.6                 |
| Packing weight (kg)                 | 18                  |
| Mechanical downtilt                 | 0° - 16°            |
| Mast diameter (mm)                  | 50 - 115            |
| Radome material                     | Fiberglass          |
| Operating temperature (°C)          | - 55 - + 65         |
| Windload frontal (N)                | 290 (v=150km/h)     |
| Windload lateral (N)                | 130 (v=150km/h)     |
| Windload rearside (N)               | 430 (v=150km/h)     |
| Max. wind velocity (km/h)           | 200                 |
| Connector                           | 2 × 7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz



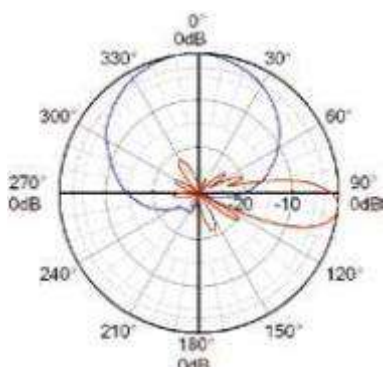
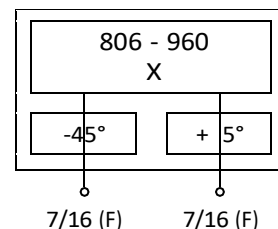
880 - 960 MHz

# DX-806-960-65-15i-6F

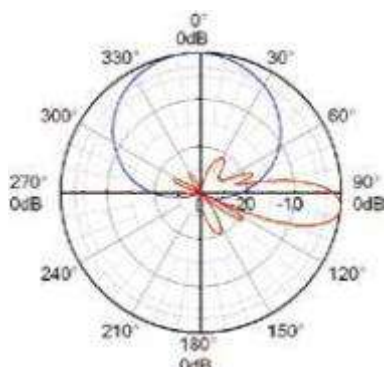


| Electrical Properties                                      |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)                                      | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.4                         |         |         |
| Gain (dBi)   | 14.5                         | 14.7    | 14.9    |
| Side lobe suppression for 1st side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                 | 67°                          | 65°     | 62°     |
| 3dB beamwidth (vertical)                                   | 15.5°                        | 14.9°   | 14.0°   |
| Isolation between ports (dB)                               | ≥30                          |         |         |
| Front to back ratio (dB)                                   | ≥25                          |         |         |
| Cross polar ratio(dB)                                      | ≥15                          |         |         |
| Electrical downtilt  | 6°                           |         |         |
| Intermodulation IM3 (dBc)                                  | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                    | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

| Mechanical Properties               |                     |
|-------------------------------------|---------------------|
| Dimensions (H × W × D) (mm)         | 1322 × 289 × 85     |
| Packing dimensions (H × W × D) (mm) | 1662 × 405 × 175    |
| Net weight (kg)                     | 9.5                 |
| Bracket weight (kg)                 | 4.6                 |
| Packing weight (kg)                 | 18                  |
| Mechanical downtilt                 | 0° - 16°            |
| Mast diameter (mm)                  | 50 - 115            |
| Radome material                     | Fiberglass          |
| Operating temperature (°C)          | - 55 - + 65         |
| Windload frontal (N)                | 290 (v=150km/h)     |
| Windload lateral (N)                | 130 (v=150km/h)     |
| Windload rearside (N)               | 430 (v=150km/h)     |
| Max. wind velocity (km/h)           | 200                 |
| Connector                           | 2 × 7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

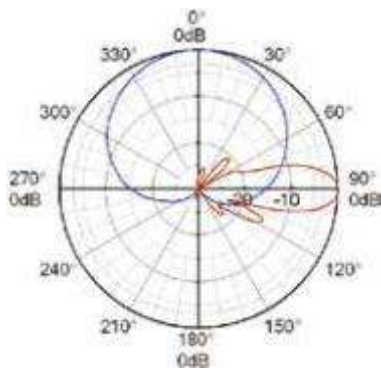
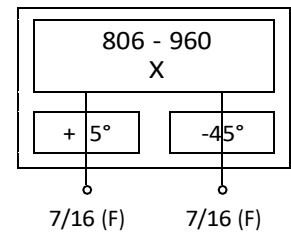


880 - 960 MHz

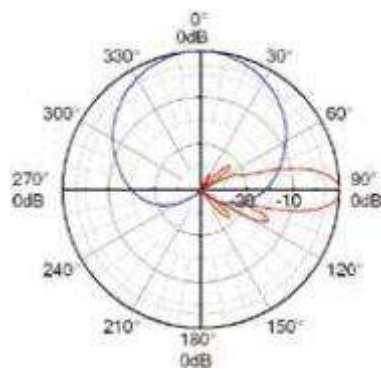
# DX-806-960-65-15.3i-0F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.4                         | ≤1.4    | ≤1.3    |
| Gain (dBi)   | 14.8                         | 15.0    | 15.3    |
| Side lobe suppression for first side lobe above horizon (dB) | ≥19                          | ≥19     | ≥19     |
| 3dB beamwidth (horizontal)                                   | 68°                          | 66°     | 64°     |
| 3dB beamwidth (vertical)                                     | 15.9°                        | 15.4°   | 14.3°   |
| Isolation between ports (dB)                                 | ≥30                          |         |         |
| Front to back ratio (dB)                                     | ≥30                          |         |         |
| Cross polar ratio(dB)  | 0°                           | ≥20     |         |
|  | ±60°                         | ≥10     |         |
| Electrical downtilt  | 0°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

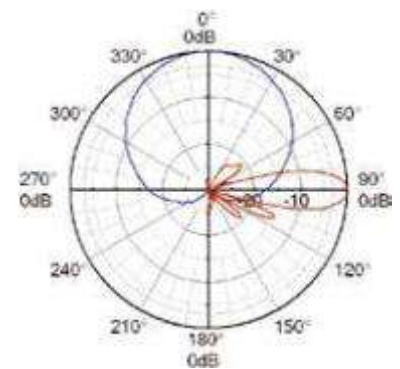
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1312 × 295 × 126  |
| Packing dimensions (H × W × D) (mm) | 1622 × 405 × 205  |
| Net weight (kg)                     | 10.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 18                |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 290 (v=150km/h)   |
| Windload lateral (N)                | 190 (v=150km/h)   |
| Windload rearside (N)               | 430 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

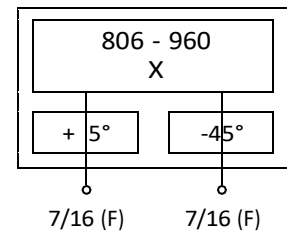


880 - 960 MHz

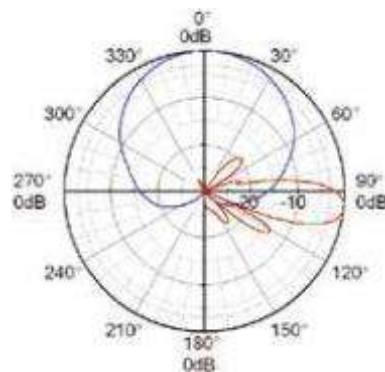
# DX-806-960-65-15.3i-6F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.35                        | ≤1.35   | ≤1.3    |
| Gain (dBi)   | 14.7                         | 14.9    | 15.2    |
| Side lobe suppression for first side lobe above horizon (dB) | ≥19                          | ≥19     | ≥19     |
| 3dB beamwidth (horizontal)                                   | 68°                          | 66°     | 64°     |
| 3dB beamwidth (vertical)                                     | 15.9°                        | 15.4°   | 14.3°   |
| Isolation between ports (dB)                                 | ≥30                          |         |         |
| Front to back ratio (dB)                                     | ≥30                          |         |         |
| Cross polar ratio(dB)  | 0°                           | ≥20     |         |
|  | ±60°                         | ≥10     |         |
| Electrical downtilt  | 6°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

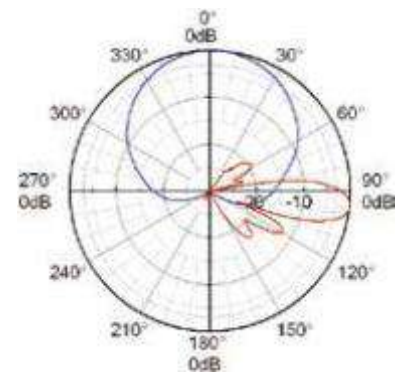
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1312 × 295 × 126  |
| Packing dimensions (H × W × D) (mm) | 1622 × 405 × 205  |
| Net weight (kg)                     | 10.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 18                |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 290 (v=150km/h)   |
| Windload lateral (N)                | 190 (v=150km/h)   |
| Windload rearside (N)               | 430 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz



880 - 960 MHz

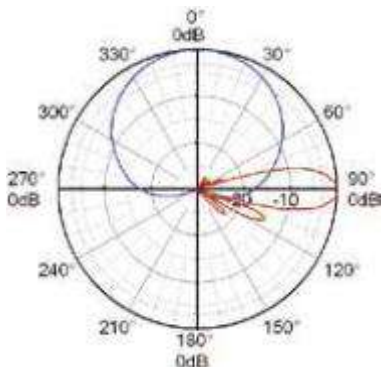
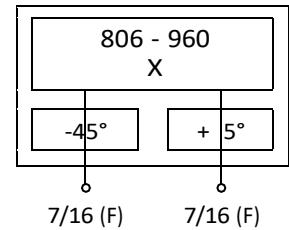


# DX-806-960-65-15.5i-M

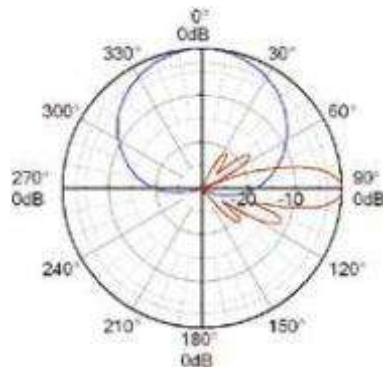
| Electrical Properties  |                              |      |      |         |      |      |         |      |      |      |
|--|------------------------------|------|------|---------|------|------|---------|------|------|------|
| Frequency range (MHz)  | 806-866                      |      |      | 824-894 |      |      | 880-960 |      |      |      |
| Polarization   | ±45°                         |      |      |         |      |      |         |      |      |      |
| VSWR   | ≤1.5                         |      |      | ≤1.45   |      |      | ≤1.45   |      |      |      |
| Gain (dBi)   | (°)                          | 0    | 7    | 14      | 0    | 7    | 14      | 0    | 7    | 14   |
|  | (dB)                         | 15.0 | 14.8 | 14.6    | 15.3 | 15.2 | 15.0    | 15.5 | 15.3 | 15.1 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 0    | 7    | 14      | 0    | 7    | 14      | 0    | 7    | 14   |
|  | (dB)                         | 18   | 17   | 16      | 18   | 17   | 16      | 18   | 17   | 16   |
| 3dB beamwidth (horizontal)                                   | 68°                          |      |      | 66°     |      |      | 65°     |      |      |      |
| 3dB beamwidth (vertical)                                     | 14.5°                        |      |      | 14.0°   |      |      | 13.5°   |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |      |      |         |      |      |         |      |      |      |
| Front to back ratio (dB)                                     | ≥28                          |      |      |         |      |      |         |      |      |      |
| Cross polar ratio(dB)  | 0°                           | ≥18  |      |         |      |      |         |      |      |      |
|  | ±60°                         | ≥10  |      |         |      |      |         |      |      |      |
| Electrical downtilt  | 0°-14°                       |      |      |         |      |      |         |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |      |      |         |      |      |         |      |      |      |
| Max. CW input power (W)                                      | 500                          |      |      |         |      |      |         |      |      |      |
| Impedance (Ω)  | 50                           |      |      |         |      |      |         |      |      |      |
| Grounding  | DC ground                    |      |      |         |      |      |         |      |      |      |



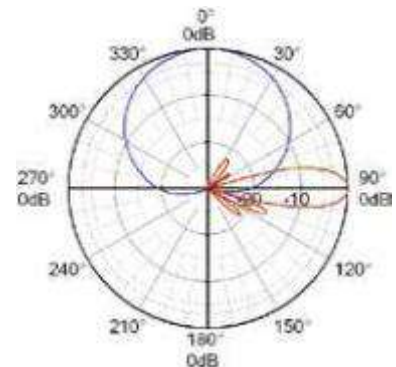
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1399 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 1740 × 405 × 175  |
| Net weight (kg)                     | 11.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 20                |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 290 (v=150km/h)   |
| Windload lateral (N)                | 130 (v=150km/h)   |
| Windload rearside (N)               | 430 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

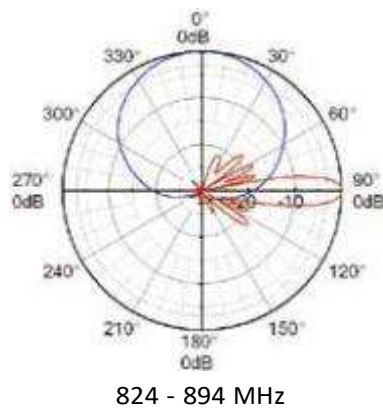
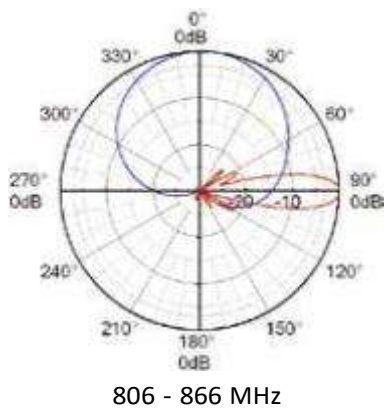
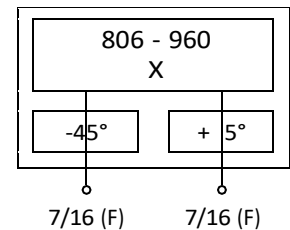


880 - 960 MHz

# DX-806-960-65-17i-0F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.37                        |         |         |
| Gain (dBi)   | 16.6                         | 16.8    | 17.0    |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                   | 67°                          | 64°     | 63°     |
| 3dB beamwidth (vertical)                                     | 11.0°                        | 10.5°   | 10.0°   |
| Isolation between ports (dB)                                 | ≥28                          |         |         |
| Front to back ratio (dB)                                     | ≥25                          |         |         |
| Cross polar ratio(dB)  | ≥15                          |         |         |
| Electrical downtilt  | 0°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

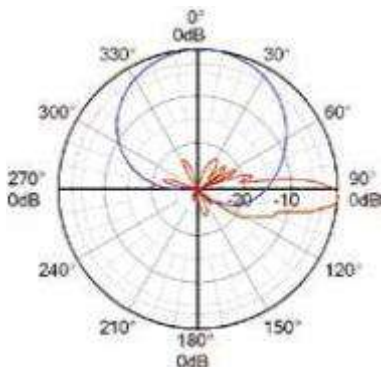
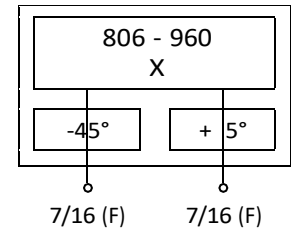
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1932 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 2272 × 405 × 175  |
| Net weight (kg)                     | 13.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 22                |
| Mechanical downtilt                 | 0° - 12°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 420 (v=150km/h)   |
| Windload lateral (N)                | 190 (v=150km/h)   |
| Windload rearside (N)               | 620 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



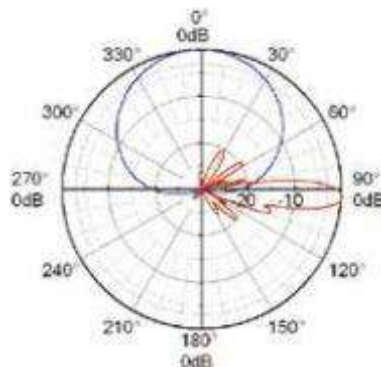
# DX-806-960-65-17i-3F

| Electrical Properties                                      |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)                                      | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.5                         |         |         |
| Gain (dBi)   | 16.7                         | 17.0    | 17.2    |
| Side lobe suppression for 1st side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                 | 67°                          | 64°     | 63°     |
| 3dB beamwidth (vertical)                                   | 11.0°                        | 10.5°   | 10.0°   |
| Isolation between ports (dB)                               | ≥28                          |         |         |
| Front to back ratio (dB)                                   | ≥25                          |         |         |
| Cross polar ratio(dB)                                      | ≥15                          |         |         |
| Electrical downtilt  | 3°                           |         |         |
| Intermodulation IM3 (dBc)                                  | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                    | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

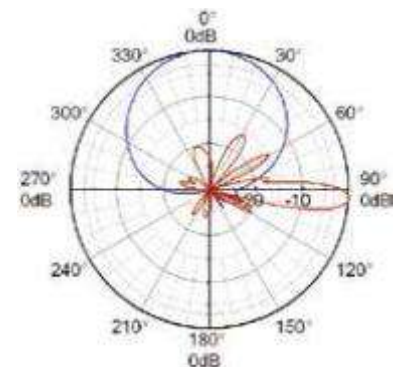
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1932 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 2272 × 405 × 175  |
| Net weight (kg)                     | 13.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 22                |
| Mechanical downtilt                 | 0° - 12°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 420 (v=150km/h)   |
| Windload lateral (N)                | 190 (v=150km/h)   |
| Windload rearside (N)               | 620 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

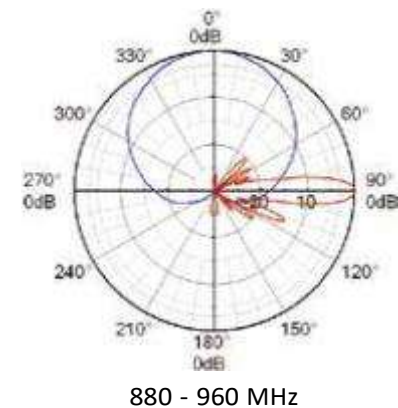
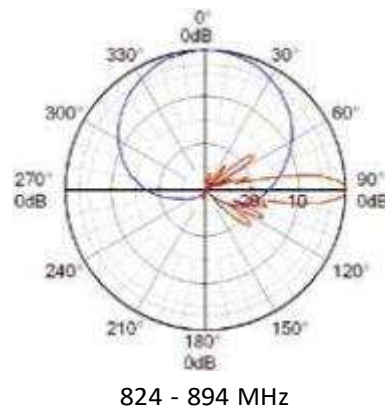
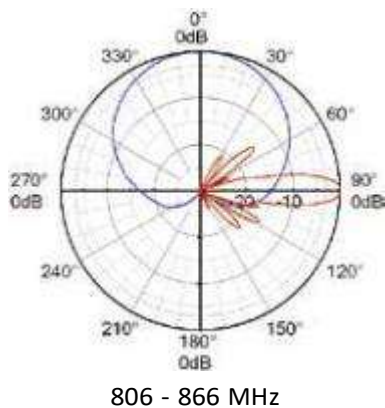
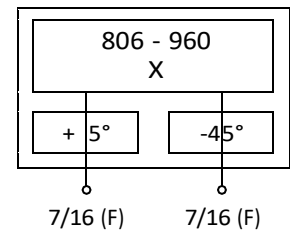


880 - 960 MHz

# DX-806-960-65-17.3i-0F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.4                         | ≤1.4    | ≤1.3    |
| Gain (dBi)   | 16.8                         | 17.0    | 17.3    |
| Side lobe suppression for first side lobe above horizon (dB) | ≥19                          | ≥19     | ≥19     |
| 3dB beamwidth (horizontal)                                   | 68°                          | 66°     | 64°     |
| 3dB beamwidth (vertical)                                     | 10.6°                        | 10.2°   | 9.5°    |
| Isolation between ports (dB)                                 | ≥30                          |         |         |
| Front to back ratio (dB)                                     | ≥30                          |         |         |
| Cross polar ratio(dB)  | 0°                           | ≥20     |         |
|  | ±60°                         | ≥10     |         |
| Electrical downtilt  | 0°                           |         |         |
| Intermodulation IM3 (dBC)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

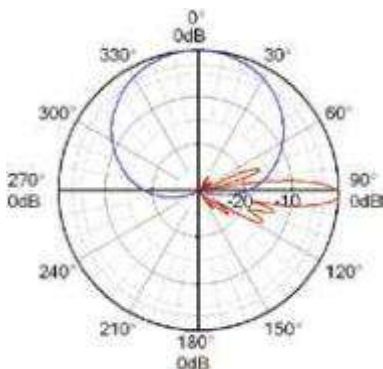
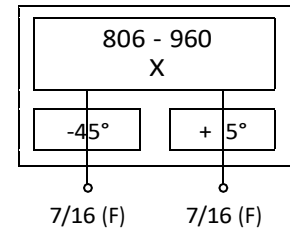
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1972 × 295 × 126  |
| Packing dimensions (H × W × D) (mm) | 2282 × 405 × 205  |
| Net weight (kg)                     | 14.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 24                |
| Mechanical downtilt                 | 0° - 12°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 440 (v=150km/h)   |
| Windload lateral (N)                | 280 (v=150km/h)   |
| Windload rearside (N)               | 650 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



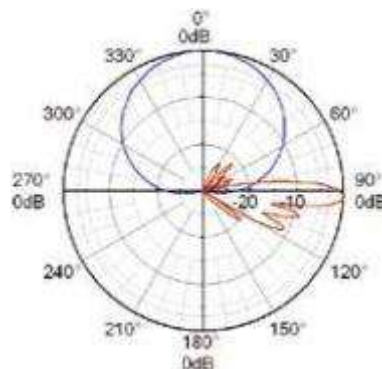
# DX-806-960-65-17.5i-M

| Electrical Properties  |                              |      |      |         |      |      |         |      |      |      |
|--|------------------------------|------|------|---------|------|------|---------|------|------|------|
| Frequency range (MHz)  | 806-866                      |      |      | 824-894 |      |      | 880-960 |      |      |      |
| Polarization   | ±45°                         |      |      |         |      |      |         |      |      |      |
| VSWR   | ≤1.47                        |      |      | ≤1.4    |      |      | ≤1.4    |      |      |      |
| Gain (dBi)   | (°)                          | 2    | 6    | 9.5     | 2    | 6    | 9.5     | 2    | 6    | 9.5  |
|  | (dB)                         | 17.1 | 17.2 | 16.9    | 17.2 | 17.3 | 17.0    | 17.4 | 17.5 | 17.2 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 2    | 6    | 9.5     | 2    | 6    | 9.5     | 2    | 6    | 9.5  |
|  | (dB)                         | 18   | 17   | 16      | 18   | 17   | 16      | 18   | 17   | 16   |
| 3dB beamwidth (horizontal)                                   | 68°                          |      |      | 66°     |      |      | 65°     |      |      |      |
| 3dB beamwidth (vertical)                                     | 8.8°                         |      |      | 8.5°    |      |      | 7.8°    |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |      |      |         |      |      |         |      |      |      |
| Front to back ratio (dB)                                     | ≥28                          |      |      |         |      |      |         |      |      |      |
| Cross polar ratio(dB)  | 0°                           | ≥18  |      |         |      |      |         |      |      |      |
|  | ±60°                         | ≥10  |      |         |      |      |         |      |      |      |
| Electrical downtilt  | 2°-9.5°                      |      |      |         |      |      |         |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |      |      |         |      |      |         |      |      |      |
| Max. CW input power (W)                                      | 500                          |      |      |         |      |      |         |      |      |      |
| Impedance (Ω)  | 50                           |      |      |         |      |      |         |      |      |      |
| Grounding  | DC ground                    |      |      |         |      |      |         |      |      |      |

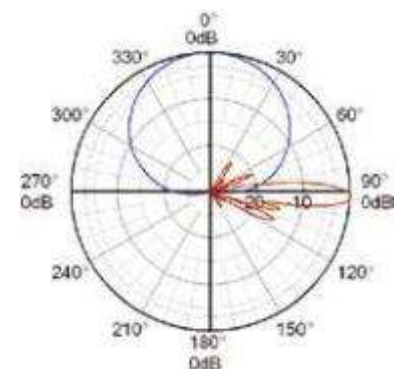
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2516 × 295 × 95   |
| Packing dimensions (H × W × D) (mm) | 2855 × 405 × 175  |
| Net weight (kg)                     | 15.5              |
| Bracket weight (kg)                 | 5.5               |
| Packing weight (kg)                 | 27                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 960 (v=150km/h)   |
| Windload lateral (N)                | 360 (v=150km/h)   |
| Windload rearside (N)               | 960 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

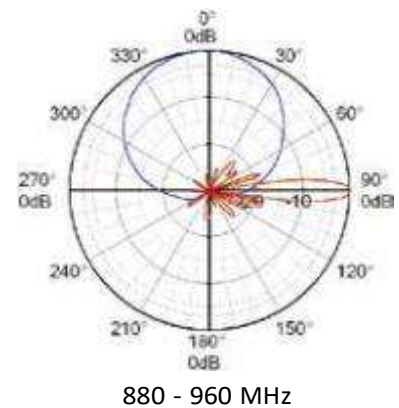
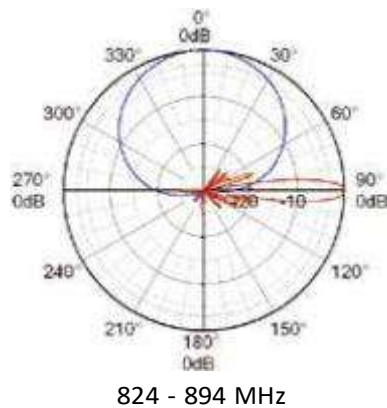
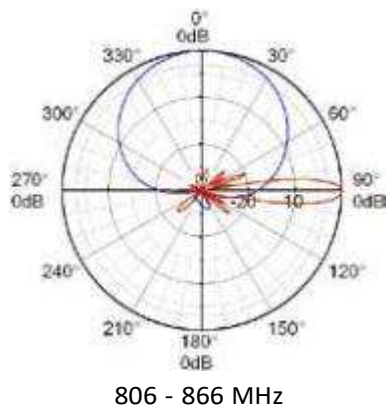
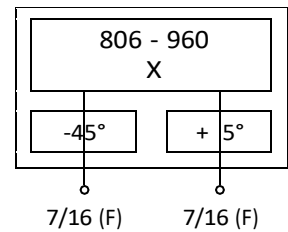


880 - 960 MHz

# DX-806-960-65-18i-0F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.45                        |         |         |
| Gain (dBi)   | 17.4                         | 17.6    | 17.8    |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                   | 67°                          | 64°     | 63°     |
| 3dB beamwidth (vertical)                                     | 8.2°                         | 7.5°    | 7.0°    |
| Isolation between ports (dB)                                 | ≥28                          |         |         |
| Front to back ratio (dB)                                     | ≥25                          |         |         |
| Cross polar ratio(dB)  | ≥15                          |         |         |
| Electrical downtilt  | 0°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

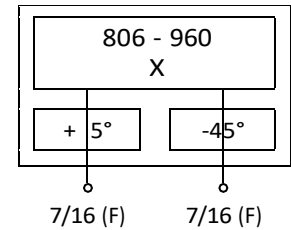
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2572 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 2912 × 405 × 175  |
| Net weight (kg)                     | 16.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 26                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 560 (v=150km/h)   |
| Windload lateral (N)                | 240 (v=150km/h)   |
| Windload rearside (N)               | 830 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



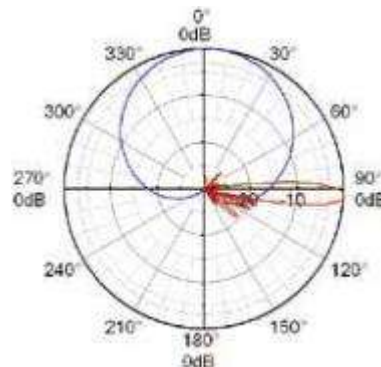
# DX-806-960-65-18i-3F

| Electrical Properties                                      |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)                                      | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.45                        |         |         |
| Gain (dBi)   | 17.8                         | 18.0    | 18.2    |
| Side lobe suppression for 1st side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                 | 67°                          | 64°     | 63°     |
| 3dB beamwidth (vertical)                                   | 8.2°                         | 7.5°    | 7.0°    |
| Isolation between ports (dB)                               | ≥28                          |         |         |
| Front to back ratio (dB)                                   | ≥25                          |         |         |
| Cross polar ratio(dB)                                      | ≥15                          |         |         |
| Electrical downtilt  | 3°                           |         |         |
| Intermodulation IM3 (dBc)                                  | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                    | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

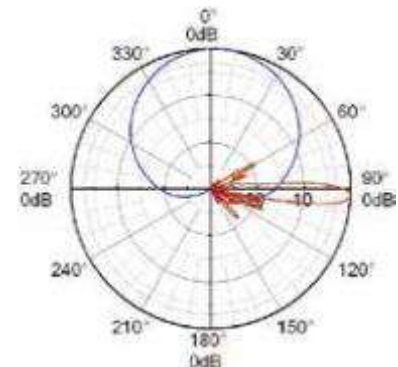
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2572 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 2912 × 405 × 175  |
| Net weight (kg)                     | 16.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 26                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 560 (v=150km/h)   |
| Windload lateral (N)                | 240 (v=150km/h)   |
| Windload rearside (N)               | 830 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

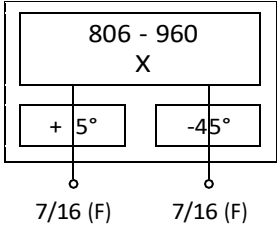


880 - 960 MHz

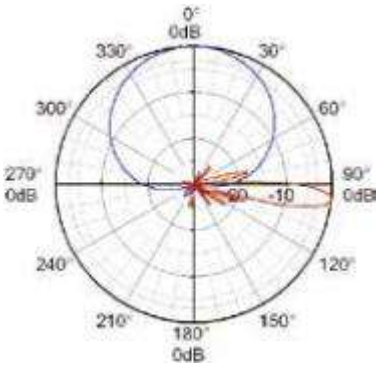
# DX-806-960-65-18i-6F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.37                        |         |         |
| Gain (dBi)   | 17.3                         | 17.6    | 17.8    |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.17                       | Typ.17  | Typ.17  |
| 3dB beamwidth (horizontal)                                   | 67°                          | 64°     | 63°     |
| 3dB beamwidth (vertical)                                     | 8.0°                         | 7.3°    | 6.8°    |
| Isolation between ports (dB)                                 | ≥30                          |         |         |
| Front to back ratio (dB)                                     | ≥25                          |         |         |
| Cross polar ratio(dB)  | ≥15                          |         |         |
| Electrical downtilt  | 6°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

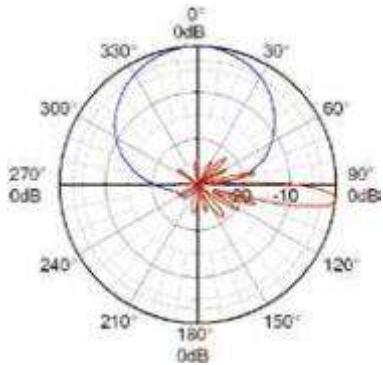
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2572 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 2912 × 405 × 175  |
| Net weight (kg)                     | 16.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 26                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 560 (v=150km/h)   |
| Windload lateral (N)                | 240 (v=150km/h)   |
| Windload rearside (N)               | 830 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz



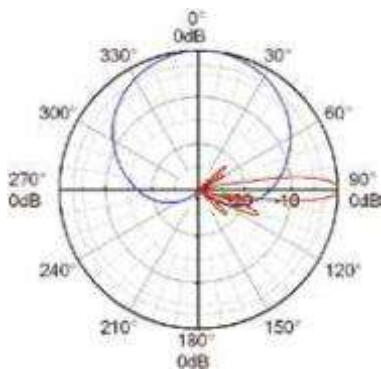
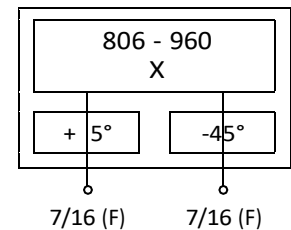
880 - 960 MHz



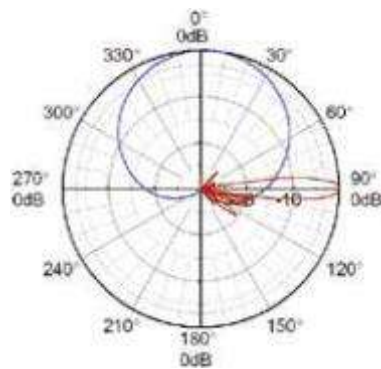
# DX-806-960-65-18.2i-0F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.4                         | ≤1.4    | ≤1.3    |
| Gain (dBi)   | 17.8                         | 18.0    | 18.2    |
| Side lobe suppression for first side lobe above horizon (dB) | ≥18                          | ≥18     | ≥18     |
| 3dB beamwidth (horizontal)                                   | 68°                          | 66°     | 64°     |
| 3dB beamwidth (vertical)                                     | 8.0°                         | 7.8°    | 7.3°    |
| Isolation between ports (dB)                                 | ≥30                          |         |         |
| Front to back ratio (dB)                                     | ≥30                          |         |         |
| Cross polar ratio(dB)  | 0°                           | ≥20     |         |
|  | ±60°                         | ≥10     |         |
| Electrical downtilt  | 0°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

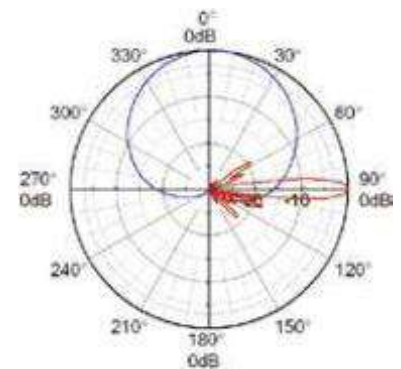
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2532 × 295 × 126  |
| Packing dimensions (H × W × D) (mm) | 2842 × 405 × 205  |
| Net weight (kg)                     | 19                |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 28                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 560 (v=150km/h)   |
| Windload lateral (N)                | 360 (v=150km/h)   |
| Windload rearside (N)               | 830 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

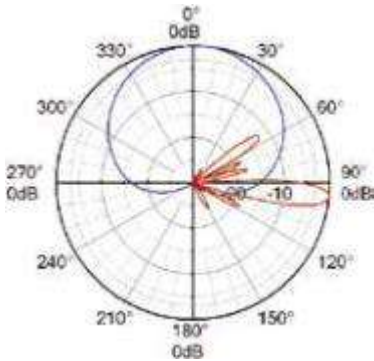
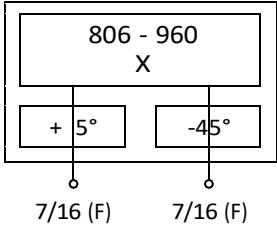


880 - 960 MHz

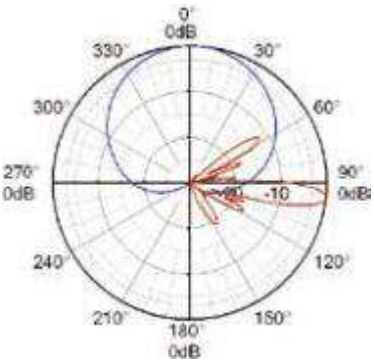
# DX-806-960-65-18.2i-6F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.4                         | ≤1.4    | ≤1.3    |
| Gain (dBi)   | 17.5                         | 17.7    | 18.0    |
| Side lobe suppression for first side lobe above horizon (dB) | ≥19                          | ≥19     | ≥19     |
| 3dB beamwidth (horizontal)                                   | 68°                          | 66°     | 64°     |
| 3dB beamwidth (vertical)                                     | 8.0°                         | 7.8°    | 7.3°    |
| Isolation between ports (dB)                                 | ≥32                          |         |         |
| Front to back ratio (dB)                                     | ≥30                          |         |         |
| Cross polar ratio(dB)  | 0°                           | ≥20     |         |
|  | ±60°                         | ≥10     |         |
| Electrical downtilt  | 6°                           |         |         |
| Intermodulation IM3 (dBC)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

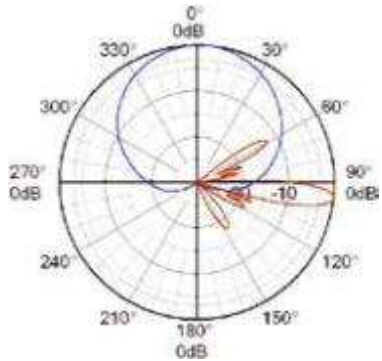
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2532 × 295 × 126  |
| Packing dimensions (H × W × D) (mm) | 2842 × 405 × 205  |
| Net weight (kg)                     | 19                |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 28                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 560 (v=150km/h)   |
| Windload lateral (N)                | 360 (v=150km/h)   |
| Windload rearside (N)               | 830 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

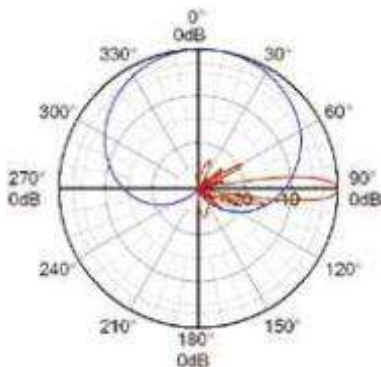
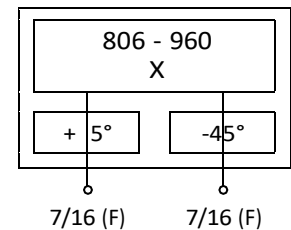


880 - 960 MHz

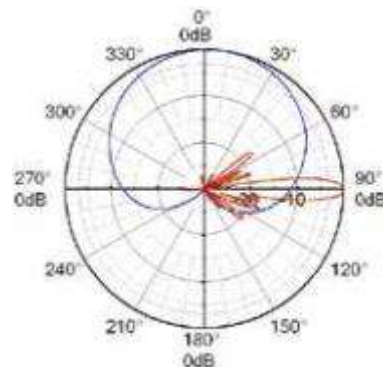
# DX-806-960-90-17i-0F

| Electrical Properties  |                              |         |         |
|--|------------------------------|---------|---------|
| Frequency range (MHz)  | 806-866                      | 824-894 | 880-960 |
| Polarization   | ±45°                         |         |         |
| VSWR   | ≤1.4                         | ≤1.4    | ≤1.4    |
| Gain (dBi)   | 16.5                         | 16.8    | 17.0    |
| Side lobe suppression for first side lobe above horizon (dB) | ≥18                          | ≥18     | ≥18     |
| 3dB beamwidth (horizontal)                                   | 88°                          | 86°     | 84°     |
| 3dB beamwidth (vertical)                                     | 8.1°                         | 7.9°    | 7.2°    |
| Isolation between ports (dB)                                 | ≥30                          |         |         |
| Front to back ratio (dB)                                     | ≥25                          |         |         |
| Cross polar ratio(dB)  | 0°                           | ≥15     |         |
|  | ±60°                         | ≥10     |         |
| Electrical downtilt  | 0°                           |         |         |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |         |
| Max. CW input power (W)                                      | 500                          |         |         |
| Impedance (Ω)  | 50                           |         |         |
| Grounding  | DC ground                    |         |         |

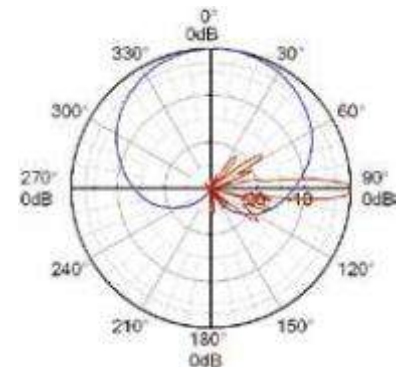
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2526 × 268 × 125  |
| Packing dimensions (H × W × D) (mm) | 2842 × 405 × 205  |
| Net weight (kg)                     | 19                |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 26                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 510 (v=150km/h)   |
| Windload lateral (N)                | 350 (v=150km/h)   |
| Windload rearside (N)               | 750 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz



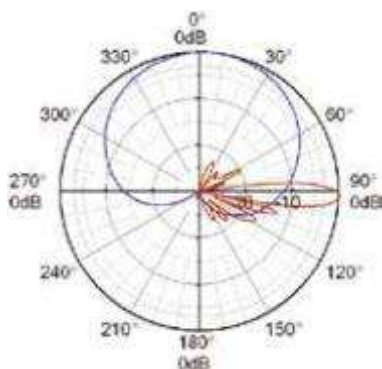
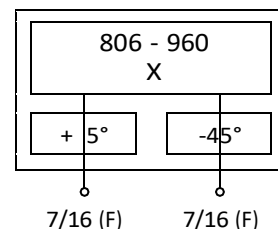
880 - 960 MHz

# DX-806-960-90-17i-M

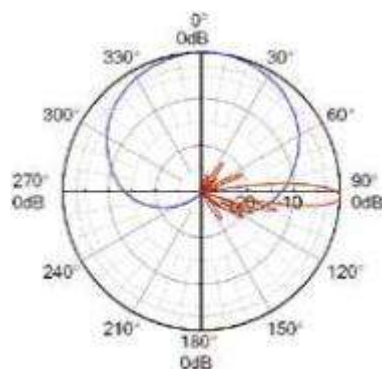
| Electrical Properties  |                              |         |      |         |      |      |         |      |      |      |
|--|------------------------------|---------|------|---------|------|------|---------|------|------|------|
| Frequency range (MHz)  | 806-866                      |         |      | 824-894 |      |      | 880-960 |      |      |      |
| Polarization   | ±45°                         |         |      |         |      |      |         |      |      |      |
| VSWR   | ≤1.45                        |         |      | ≤1.4    |      |      | ≤1.4    |      |      |      |
| Gain (dBi)   | (°)                          | 2       | 6    | 9.5     | 2    | 6    | 9.5     | 2    | 6    | 9.5  |
|  | (dB)                         | 16.1    | 16.2 | 16      | 16.3 | 16.4 | 16.2    | 16.4 | 16.5 | 16.3 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 2       | 6    | 9.5     | 2    | 6    | 9.5     | 2    | 6    | 9.5  |
|  | (dB)                         | 18      | 18   | 18      | 18   | 18   | 18      | 18   | 18   | 18   |
| 3dB beamwidth (horizontal)                                   | 88°                          |         |      | 86°     |      |      | 85°     |      |      |      |
| 3dB beamwidth (vertical)                                     | 8.2°                         |         |      | 7.6°    |      |      | 7.4°    |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |         |      |         |      |      |         |      |      |      |
| Front to back ratio (dB)                                     | ≥25                          |         |      |         |      |      |         |      |      |      |
| Cross polar ratio(dB)  | 0°                           | ≥20     |      |         |      |      |         |      |      |      |
|  | ±60°                         | Typ. 13 |      |         |      |      |         |      |      |      |
| Electrical downtilt  | 2° - 9.5°                    |         |      |         |      |      |         |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |      |         |      |      |         |      |      |      |
| Max. CW input power (W)                                      | 500                          |         |      |         |      |      |         |      |      |      |
| Impedance (Ω)  | 50                           |         |      |         |      |      |         |      |      |      |
| Grounding  | DC ground                    |         |      |         |      |      |         |      |      |      |



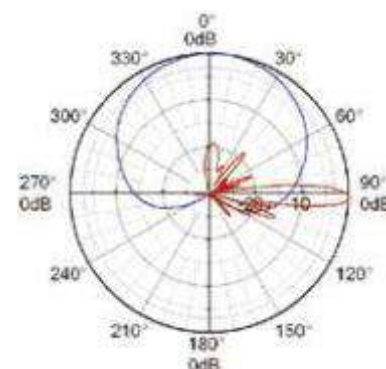
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2526 × 268 × 125  |
| Packing dimensions (H × W × D) (mm) | 2842 × 405 × 205  |
| Net weight (kg)                     | 18.6              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 27                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 510 (v=150km/h)   |
| Windload lateral (N)                | 350 (v=150km/h)   |
| Windload rearside (N)               | 750 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



806 - 866 MHz



824 - 894 MHz

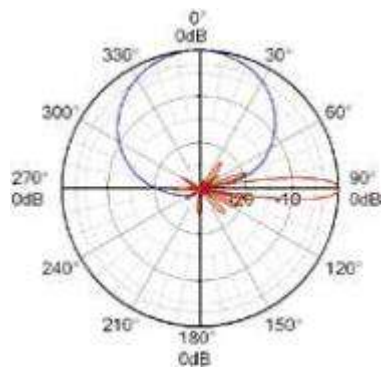
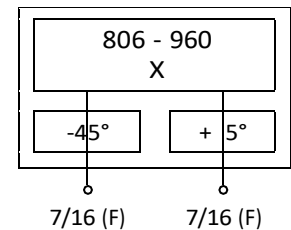


880 - 960 MHz

# DX-890-960-65-18i-0F

| Electrical Properties  |                              |
|--|------------------------------|
| Frequency range (MHz)  | 890-960                      |
| Polarization   | ±45°                         |
| VSWR   | ≤1.3                         |
| Gain (dBi)   | 18                           |
| Side lobe suppression for first side lobe above horizon (dB) | ≥18                          |
| 3dB beamwidth (horizontal)                                   | 65°                          |
| 3dB beamwidth (vertical)                                     | 7°                           |
| Isolation between ports (dB)                                 | ≥30                          |
| Front to back ratio (dB)                                     | ≥25                          |
| Cross polar ratio(dB)  | ≥15                          |
| Electrical downtilt  | 0°                           |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |
| Max. CW input power (W)                                      | 500                          |
| Impedance (Ω)  | 50                           |
| Grounding  | DC ground                    |

| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2572 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 2912 × 405 × 175  |
| Net weight (kg)                     | 16.5              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 26                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 560 (v=150km/h)   |
| Windload lateral (N)                | 240 (v=150km/h)   |
| Windload rearside (N)               | 830 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



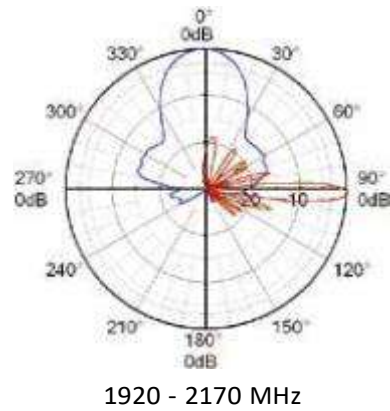
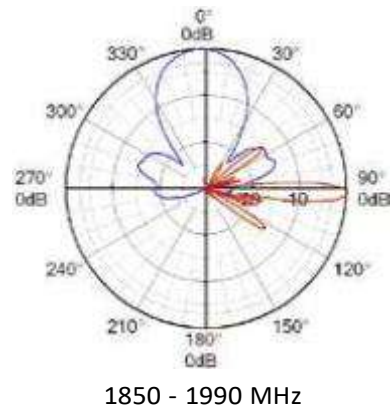
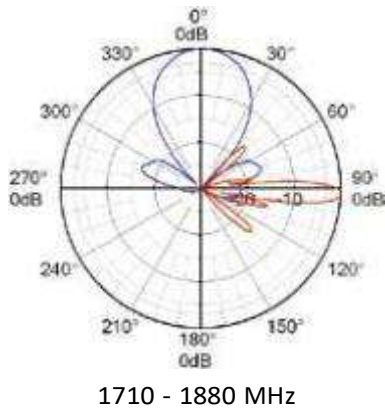
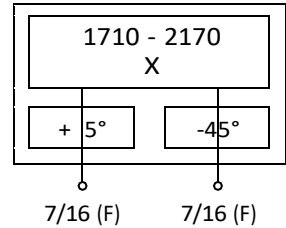
890 - 960 MHz

# DX-1710-2170-33-21i-M

| Electrical Properties  |                              |      |      |           |      |      |           |      |      |      |
|--|------------------------------|------|------|-----------|------|------|-----------|------|------|------|
| Frequency range (MHz)  | 1710-1880                    |      |      | 1850-1990 |      |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                         |      |      |           |      |      |           |      |      |      |
| VSWR   | ≤1.45                        |      |      |           |      |      |           |      |      |      |
| Gain (dBi)   | (°)                          | 2    | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 20.0 | 20.3 | 20.0      | 20.3 | 20.6 | 20.3      | 20.5 | 20.8 | 20.5 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 2    | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 18   | 17   | 17        | 18   | 17   | 17        | 18   | 17   | 17   |
| 3dB beamwidth (horizontal)                                   | 34°                          |      |      | 32°       |      |      | 30°       |      |      |      |
| 3dB beamwidth (vertical)                                     | 7.3°                         |      |      | 6.8°      |      |      | 6.2°      |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |      |      |           |      |      |           |      |      |      |
| Front to back ratio (dB)                                     | ≥30                          |      |      |           |      |      |           |      |      |      |
| Cross polar ratio(dB)  | 0°                           | ≥20  |      |           |      |      |           |      |      |      |
|  | 10dB beam width              | ≥10  |      |           |      |      |           |      |      |      |
| Electrical downtilt  | 2° - 10°                     |      |      |           |      |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |      |      |           |      |      |           |      |      |      |
| Max. CW input power (W)                                      | 300                          |      |      |           |      |      |           |      |      |      |
| Impedance (Ω)  | 50                           |      |      |           |      |      |           |      |      |      |
| Grounding  | DC ground                    |      |      |           |      |      |           |      |      |      |



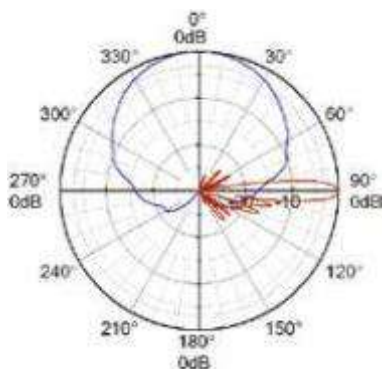
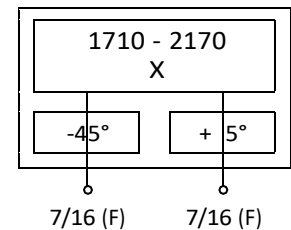
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1318 × 289 × 85   |
| Packing dimensions (H × W × D) (mm) | 1662 × 405 × 175  |
| Net weight (kg)                     | 11.4              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 19                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 285 (v=150km/h)   |
| Windload lateral (N)                | 120 (v=150km/h)   |
| Windload rearside (N)               | 425 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



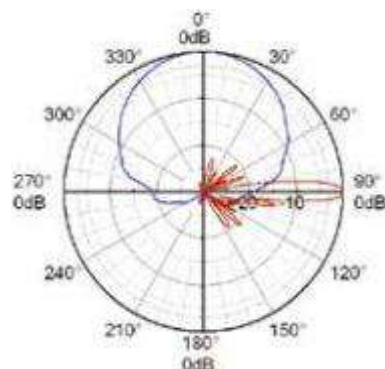
# DX-1710-2170-65-18i-0F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.4                         |           |           |
| Gain (dBi)   | 17.6                         | 17.8      | 18.0      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.20                       | Typ.20    | Typ.20    |
| 3dB beamwidth (horizontal)                                   | 68°                          | 65°       | 62°       |
| 3dB beamwidth (vertical)                                     | 7.3°                         | 6.8°      | 6.2°      |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | Typ.30                       |           |           |
| Cross polar ratio(dB)  | 0°                           | Typ.21    |           |
|  | ±60°                         | Typ.10    |           |
| Electrical downtilt  | 0°                           |           |           |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 500                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

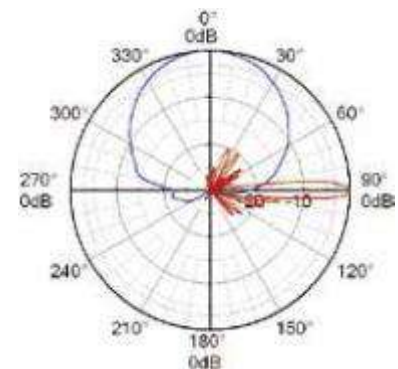
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1306 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 1770 × 260 × 130  |
| Net weight (kg)                     | 5.5               |
| Bracket weight (kg)                 | 3.0               |
| Packing weight (kg)                 | 10.5              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 114          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 150 (v=150km/h)   |
| Windload lateral (N)                | 115 (v=150km/h)   |
| Windload rearside (N)               | 225 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz

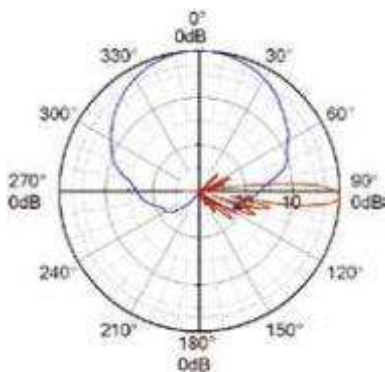
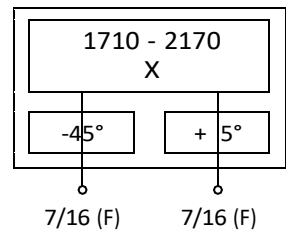


1920 - 2170 MHz

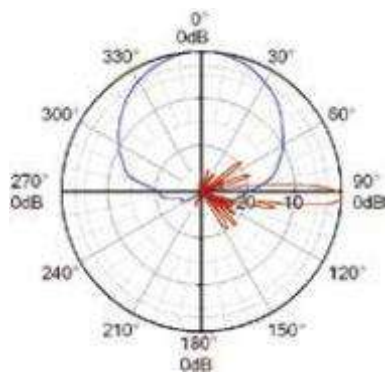
# DX-1710-2170-65-18i-2F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.4                         |           |           |
| Gain (dBi)   | 17.6                         | 17.8      | 18.0      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.20                       | Typ.20    | Typ.20    |
| 3dB beamwidth (horizontal)                                   | 68°                          | 65°       | 62°       |
| 3dB beamwidth (vertical)                                     | 7.3°                         | 6.8°      | 6.2°      |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | Typ.30                       |           |           |
| Cross polar ratio(dB)  | 0°                           | Typ.21    |           |
|  | ±60°                         | Typ.10    |           |
| Electrical downtilt  | 2°                           |           |           |
| Intermodulation IM3 (dBC)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 500                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

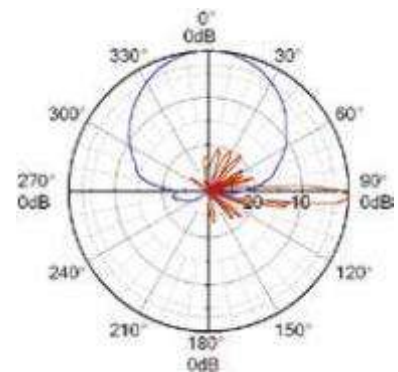
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1306 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 1770 × 260 × 130  |
| Net weight (kg)                     | 5.5               |
| Bracket weight (kg)                 | 3.0               |
| Packing weight (kg)                 | 10.5              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 150 (v=150km/h)   |
| Windload lateral (N)                | 115 (v=150km/h)   |
| Windload rearside (N)               | 225 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz



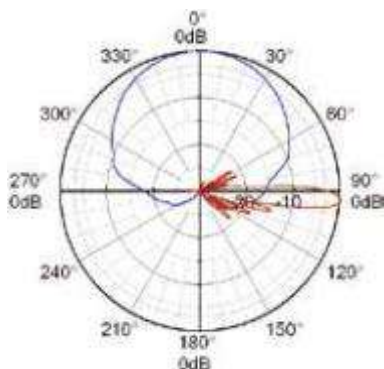
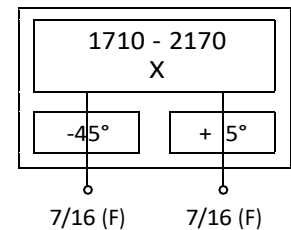
1920 - 2170 MHz



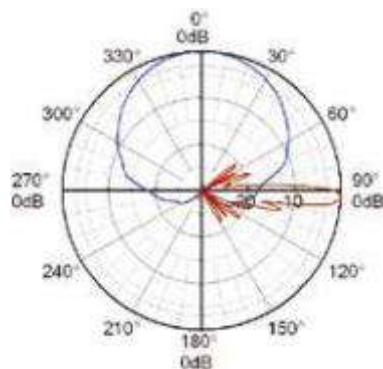
# DX-1710-2170-65-18i-3F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.4                         |           |           |
| Gain (dBi)   | 17.6                         | 17.8      | 18.0      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.20                       | Typ.20    | Typ.20    |
| 3dB beamwidth (horizontal)                                   | 68°                          | 65°       | 62°       |
| 3dB beamwidth (vertical)                                     | 7.3°                         | 6.8°      | 6.2°      |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | Typ.30                       |           |           |
| Cross polar ratio(dB)  | 0°                           | Typ.21    |           |
|  | ±60°                         | Typ.10    |           |
| Electrical downtilt  | 3°                           |           |           |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 500                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

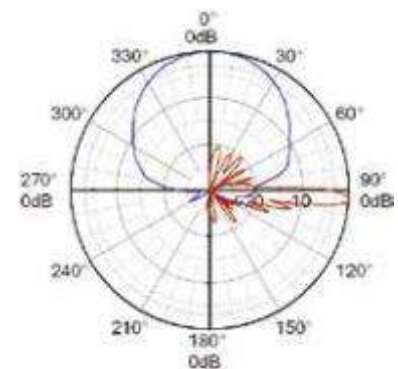
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1306 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 1770 × 260 × 130  |
| Net weight (kg)                     | 5.5               |
| Bracket weight (kg)                 | 3.0               |
| Packing weight (kg)                 | 10.5              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 150 (v=150km/h)   |
| Windload lateral (N)                | 115 (v=150km/h)   |
| Windload rearside (N)               | 225 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz

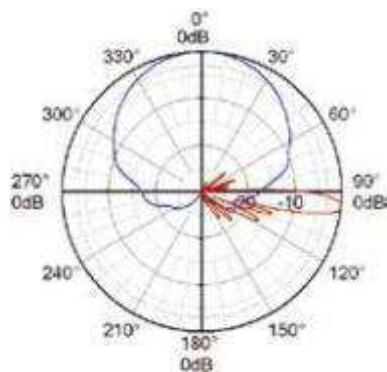
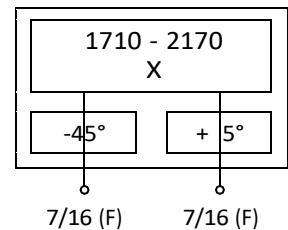


1920 - 2170 MHz

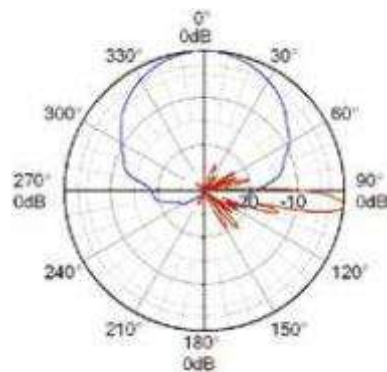
# DX-1710-2170-65-18i-6F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.4                         |           |           |
| Gain (dBi)   | 17.6                         | 17.8      | 18.0      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ.20                       | Typ.20    | Typ.20    |
| 3dB beamwidth (horizontal)                                   | 68°                          | 65°       | 62°       |
| 3dB beamwidth (vertical)                                     | 7.3°                         | 6.8°      | 6.2°      |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | Typ.30                       |           |           |
| Cross polar ratio(dB)  | 0°                           | Typ.21    |           |
|  | ±60°                         | Typ.10    |           |
| Electrical downtilt  | 6°                           |           |           |
| Intermodulation IM3 (dBC)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 500                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

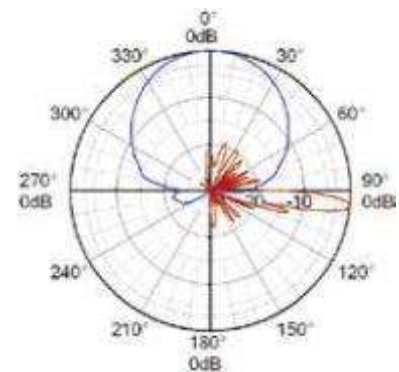
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1306 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 1770 × 260 × 130  |
| Net weight (kg)                     | 5.5               |
| Bracket weight (kg)                 | 3.0               |
| Packing weight (kg)                 | 10.5              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 150 (v=150km/h)   |
| Windload lateral (N)                | 115 (v=150km/h)   |
| Windload rearside (N)               | 225 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz

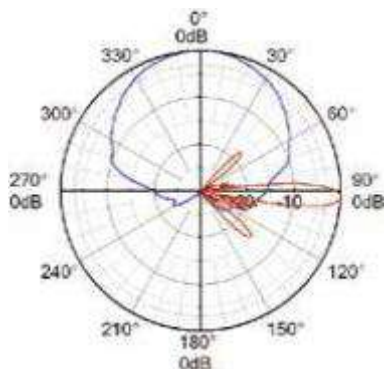
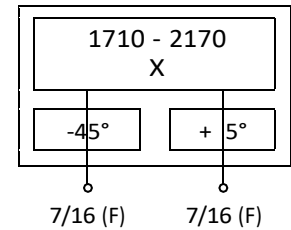


1920 - 2170 MHz

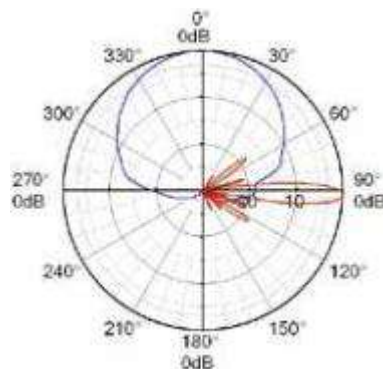
# DX-1710-2170-65-18i-M

| Electrical Properties  |                              |        |      |           |      |      |           |      |      |      |
|--|------------------------------|--------|------|-----------|------|------|-----------|------|------|------|
| Frequency range (MHz)  | 1710-1880                    |        |      | 1850-1990 |      |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                         |        |      |           |      |      |           |      |      |      |
| VSWR   | ≤1.4                         |        |      |           |      |      |           |      |      |      |
| Gain (dBi)   | (°)                          | 2      | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 17.8   | 17.7 | 17.5      | 17.9 | 17.7 | 17.5      | 18.0 | 17.7 | 17.5 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 2      | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 18     | 17   | 16        | 18   | 17   | 16        | 18   | 18   | 17   |
| 3dB beamwidth (horizontal)                                   | 66°                          |        |      | 64°       |      |      | 62°       |      |      |      |
| 3dB beamwidth (vertical)                                     | 7.5°                         |        |      | 6.8°      |      |      | 6.4°      |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |        |      |           |      |      |           |      |      |      |
| Front to back ratio (dB)                                     | Typ.30                       |        |      |           |      |      |           |      |      |      |
| Cross polar ratio(dB)  | 0°                           | Typ.20 |      |           |      |      |           |      |      |      |
|  | ±60°                         | Typ.10 |      |           |      |      |           |      |      |      |
| Electrical downtilt  | 2° - 10°                     |        |      |           |      |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |        |      |           |      |      |           |      |      |      |
| Max. CW input power (W)                                      | 300                          |        |      |           |      |      |           |      |      |      |
| Impedance (Ω)  | 50                           |        |      |           |      |      |           |      |      |      |
| Grounding  | DC ground                    |        |      |           |      |      |           |      |      |      |

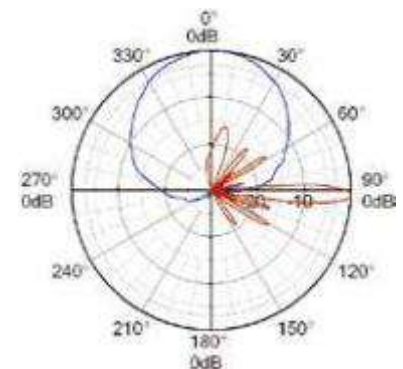
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1306 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 1770 × 260 × 130  |
| Net weight (kg)                     | 6.5               |
| Bracket weight (kg)                 | 3.0               |
| Packing weight (kg)                 | 11.5              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 150 (v=150km/h)   |
| Windload lateral (N)                | 115 (v=150km/h)   |
| Windload rearside (N)               | 225 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz



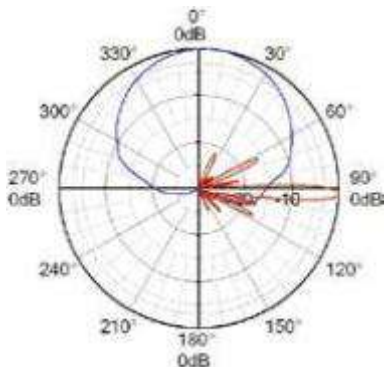
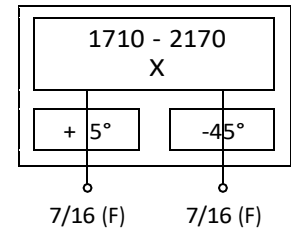
1920 - 2170 MHz

# DX-1710-2170-65-19.5i-M

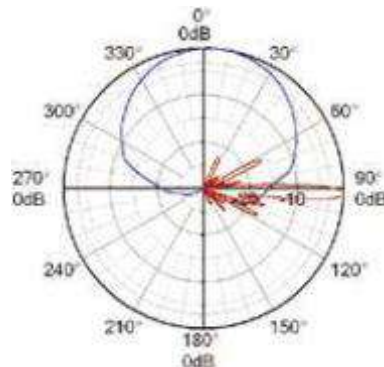
| Electrical Properties  |                              |      |      |           |    |      |           |      |      |      |
|--|------------------------------|------|------|-----------|----|------|-----------|------|------|------|
| Frequency range (MHz)  | 1710-1880                    |      |      | 1850-1990 |    |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                         |      |      |           |    |      |           |      |      |      |
| VSWR   | ≤1.45                        |      |      |           |    |      |           |      |      |      |
| Gain (dBi)   | (°)                          | 2    | 5    | 8         | 2  | 5    | 8         | 2    | 5    | 8    |
|  | (dB)                         | 18.5 | 18.7 | 18.4      | 19 | 19.2 | 18.9      | 19.3 | 19.5 | 19.2 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 2    | 5    | 8         | 2  | 5    | 8         | 2    | 5    | 8    |
|  | (dB)                         | 18   | 17   | 16        | 18 | 17   | 16        | 18   | 17   | 16   |
| 3dB beamwidth (horizontal)                                   | 68°                          |      |      | 64°       |    |      | 61°       |      |      |      |
| 3dB beamwidth (vertical)                                     | 5.0°                         |      |      | 4.6°      |    |      | 4.2°      |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |      |      |           |    |      |           |      |      |      |
| Front to back ratio (dB)                                     | ≥28                          |      |      |           |    |      |           |      |      |      |
| Cross polar ratio(dB)  | 0°                           | ≥17  |      |           |    |      |           |      |      |      |
|  | ±60°                         | ≥10  |      |           |    |      |           |      |      |      |
| Electrical downtilt  | 2° - 8°                      |      |      |           |    |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |      |      |           |    |      |           |      |      |      |
| Max. CW input power (W)                                      | 300                          |      |      |           |    |      |           |      |      |      |
| Impedance (Ω)  | 50                           |      |      |           |    |      |           |      |      |      |
| Grounding  | DC ground                    |      |      |           |    |      |           |      |      |      |



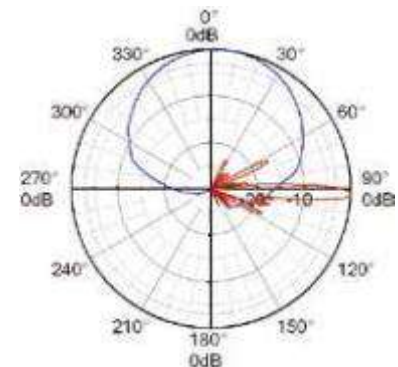
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1940 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 2360 × 255 × 150  |
| Net weight (kg)                     | 8.5               |
| Bracket weight (kg)                 | 4.0               |
| Packing weight (kg)                 | 15.3              |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 226 (v=150km/h)   |
| Windload lateral (N)                | 172 (v=150km/h)   |
| Windload rearside (N)               | 338 (v=150km/h)   |
| Max. wind velocity (km/h)           | 150               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz

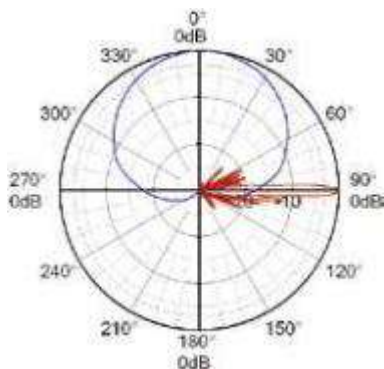
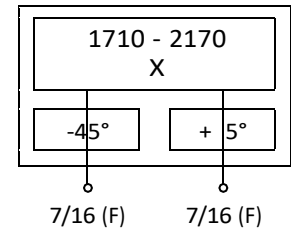


1920 - 2170 MHz

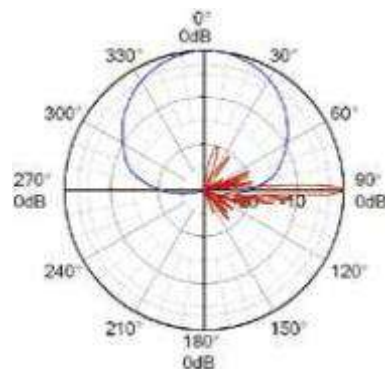
# DX-1710-2170-65-21i-0F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.45                        |           |           |
| Gain (dBi)   | 20.0                         | 20.5      | 20.8      |
| Side lobe suppression for first side lobe above horizon (dB) | 18                           |           |           |
| 3dB beamwidth (horizontal)                                   | 66°                          | 63°       | 60°       |
| 3dB beamwidth (vertical)                                     | 4.2°                         | 3.7°      | 3.3°      |
| First null_illbelow main beam (dB)                           | 20                           |           |           |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | ≥30                          |           |           |
| Cross polar ratio(dB)  | 0°                           | ≥17       |           |
|  | ±60°                         | ≥10       |           |
| Electrical downtilt  | 0°                           |           |           |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 300                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

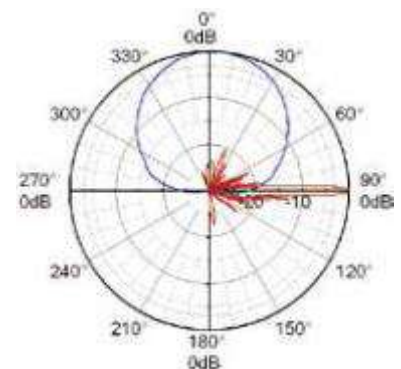
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2170 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 2580 × 250 × 145  |
| Net weight (kg)                     | 9.1               |
| Bracket weight (kg)                 | 3                 |
| Packing weight (kg)                 | 15                |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 430 (v=150km/h)   |
| Windload lateral (N)                | 430 (v=150km/h)   |
| Windload rearside (N)               | 195 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz

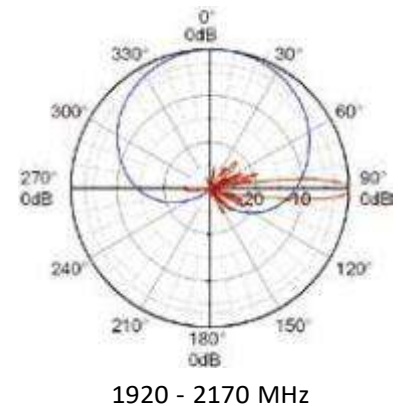
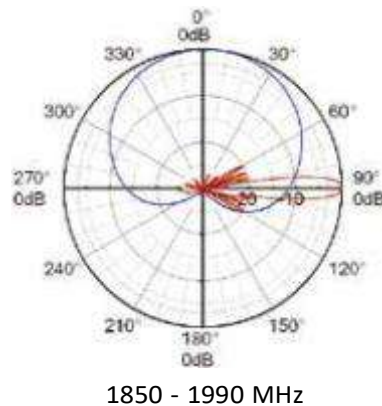
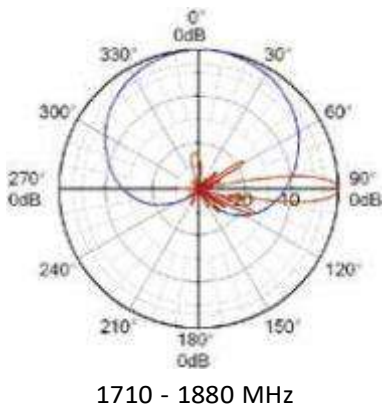
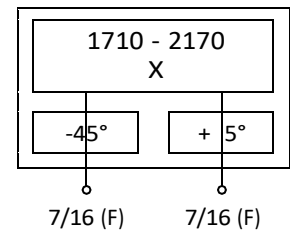


1920 - 2170 MHz

# DX-1710-2170-90-17i-0F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.5                         |           |           |
| Gain (dBi)   | 16.4                         | 16.9      | 17.3      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ. 18                      | Typ. 18   | Typ. 18   |
| 3dB beamwidth (horizontal)                                   | 87°                          | 87°       | 85°       |
| 3dB beamwidth (vertical)                                     | 8.5°                         | 7.5°      | 7.0°      |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | ≥25                          |           |           |
| Cross polar ratio(dB)  | 0°                           | ≥15       |           |
|  | ±60°                         | ≥10       |           |
| Electrical downtilt  | 0°                           |           |           |
| Intermodulation IM3 (dBC)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 200                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

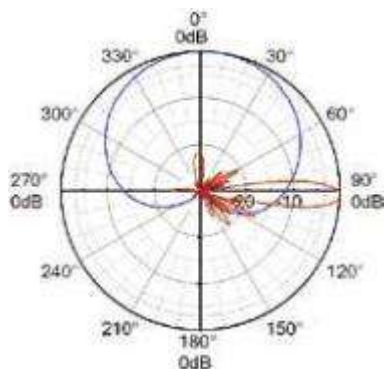
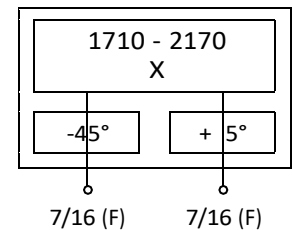
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1190 × 176 × 69   |
| Packing dimensions (H × W × D) (mm) | 1565 × 280 × 230  |
| Net weight (kg)                     | 5.8               |
| Bracket weight (kg)                 | 2.1               |
| Packing weight (kg)                 | 10.3              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 30 - 89           |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 225 (v=150km/h)   |
| Windload lateral (N)                | 92 (v=150km/h)    |
| Windload rearside (N)               | 270 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



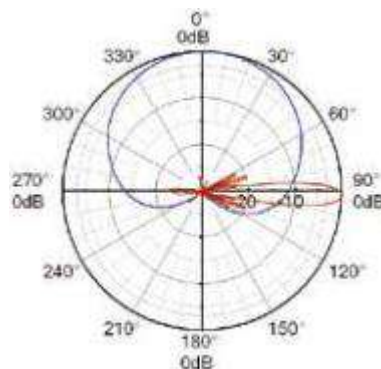
# DX-1710-2170-90-17i-2F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.5                         |           |           |
| Gain (dBi)   | 16.4                         | 16.9      | 17.3      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ. 18                      | Typ. 18   | Typ. 18   |
| 3dB beamwidth (horizontal)                                   | 87°                          | 87°       | 85°       |
| 3dB beamwidth (vertical)                                     | 8.5°                         | 7.5°      | 7.0°      |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | ≥25                          |           |           |
| Cross polar ratio(dB)  | 0°                           | ≥15       |           |
|  | ±60°                         | ≥10       |           |
| Electrical downtilt  | 2°                           |           |           |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 200                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

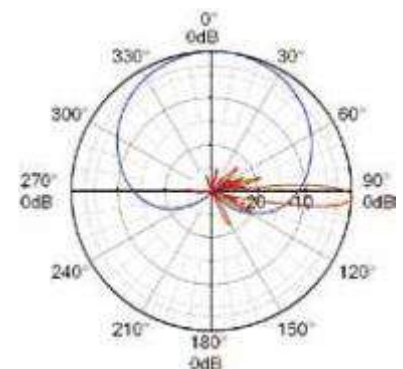
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1190 × 176 × 69   |
| Packing dimensions (H × W × D) (mm) | 1565 × 280 × 230  |
| Net weight (kg)                     | 5.8               |
| Bracket weight (kg)                 | 2.1               |
| Packing weight (kg)                 | 10.3              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 30 - 89           |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 225 (v=150km/h)   |
| Windload lateral (N)                | 92 (v=150km/h)    |
| Windload rearside (N)               | 270 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz

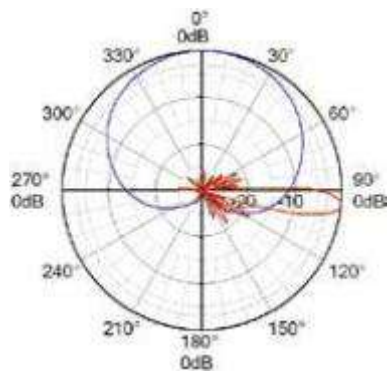
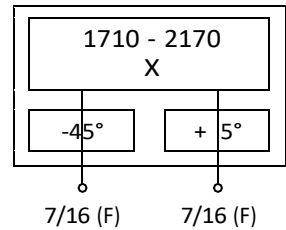


1920 - 2170 MHz

# DX-1710-2170-90-17i-6F

| Electrical Properties  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Frequency range (MHz)  | 1710-1880                    | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |           |           |
| VSWR   | ≤1.5                         |           |           |
| Gain (dBi)   | 16.2                         | 16.7      | 17.0      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ. 18                      | Typ. 18   | Typ. 18   |
| 3dB beamwidth (horizontal)                                   | 87°                          | 87°       | 85°       |
| 3dB beamwidth (vertical)                                     | 8.5°                         | 7.5°      | 7.0°      |
| Isolation between ports (dB)                                 | ≥30                          |           |           |
| Front to back ratio (dB)                                     | ≥25                          |           |           |
| Cross polar ratio(dB)  | 0°                           | ≥15       |           |
|  | ±60°                         | ≥10       |           |
| Electrical downtilt  | 6°                           |           |           |
| Intermodulation IM3 (dBC)                                    | ≤-150 ( 2 × 43 dBm carrier ) |           |           |
| Max. CW input power (W)                                      | 200                          |           |           |
| Impedance (Ω)  | 50                           |           |           |
| Grounding  | DC ground                    |           |           |

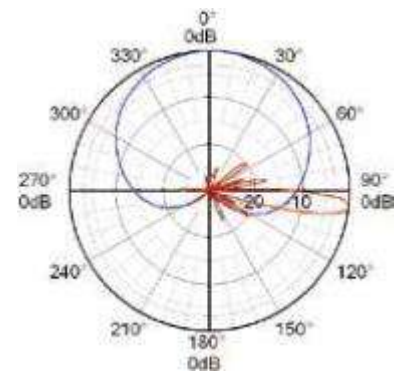
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1190 × 176 × 69   |
| Packing dimensions (H × W × D) (mm) | 1565 × 280 × 230  |
| Net weight (kg)                     | 5.8               |
| Bracket weight (kg)                 | 2.1               |
| Packing weight (kg)                 | 10.3              |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 30 - 89           |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 225 (v=150km/h)   |
| Windload lateral (N)                | 92 (v=150km/h)    |
| Windload rearside (N)               | 270 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz



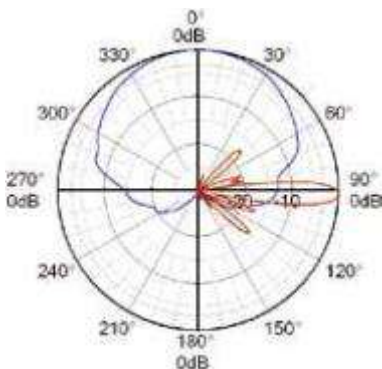
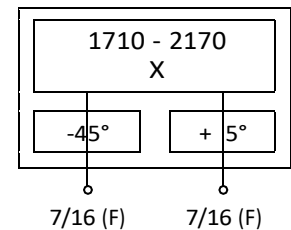
1920 - 2170 MHz



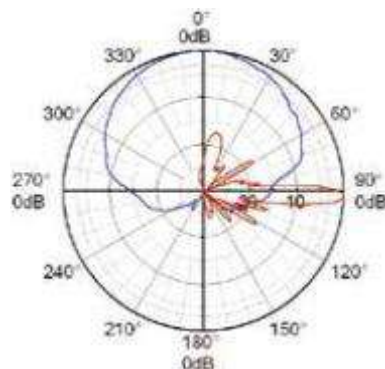
# DX-1710-2170-90-17i-M

| Electrical Properties  |                              |      |      |           |      |      |           |      |      |      |
|--|------------------------------|------|------|-----------|------|------|-----------|------|------|------|
| Frequency range (MHz)  | 1710-1880                    |      |      | 1850-1990 |      |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                         |      |      |           |      |      |           |      |      |      |
| VSWR   | ≤1.4                         |      |      |           |      |      |           |      |      |      |
| Gain (dBi)   | (°)                          | 2    | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 16.3 | 16.5 | 16.2      | 16.5 | 16.7 | 16.4      | 16.7 | 17.0 | 16.5 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 2    | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 18   | 17   | 16        | 18   | 17   | 16        | 18   | 17   | 16   |
| 3dB beamwidth (horizontal)                                   | 84°                          |      |      | 88°       |      |      | 86°       |      |      |      |
| 3dB beamwidth (vertical)                                     | 7.5°                         |      |      | 6.5°      |      |      | 6.0°      |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |      |      |           |      |      |           |      |      |      |
| Front to back ratio (dB)                                     | ≥25                          |      |      |           |      |      |           |      |      |      |
| Cross polar ratio(dB)  | 0°                           | ≥18  |      |           |      |      |           |      |      |      |
|  | ±60°                         | ≥10  |      |           |      |      |           |      |      |      |
| Electrical downtilt  | 2° - 10°                     |      |      |           |      |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |      |      |           |      |      |           |      |      |      |
| Max. CW input power (W)                                      | 300                          |      |      |           |      |      |           |      |      |      |
| Impedance (Ω)  | 50                           |      |      |           |      |      |           |      |      |      |
| Grounding  | DC ground                    |      |      |           |      |      |           |      |      |      |

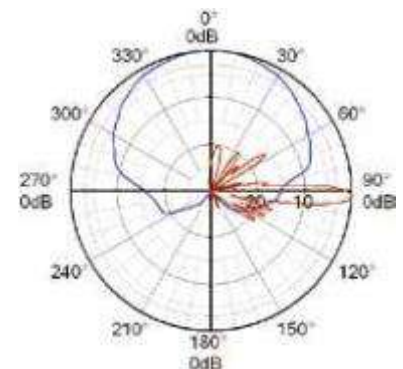
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1306 × 155 × 79   |
| Packing dimensions (H × W × D) (mm) | 1770 × 260 × 130  |
| Net weight (kg)                     | 6.5               |
| Bracket weight (kg)                 | 3.0               |
| Packing weight (kg)                 | 11.5              |
| Mechanical downtilt                 | 2° - 10°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 150 (v=150km/h)   |
| Windload lateral (N)                | 120 (v=150km/h)   |
| Windload rearside (N)               | 310 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



1710 - 1880 MHz



1850 - 1990 MHz



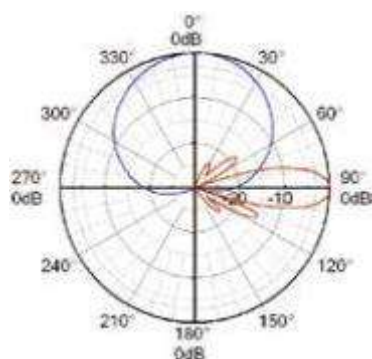
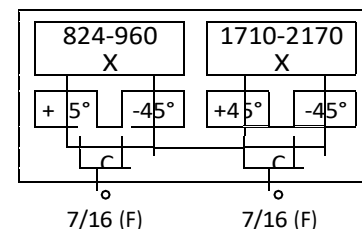
1920 - 2170 MHz

# DXX-824-960/1710-2170-65/65-15i/ 17.5i-M/M-C

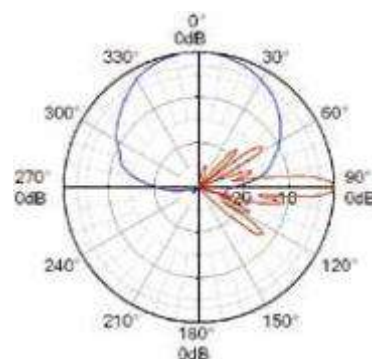


| Electrical Properties                                      |                            |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
|--|----------------------------|------|------|----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| Frequency range (MHz)                                      | 824 -894                   |      |      | 880 -960 |      |      | 1710-1880 |      |      | 1850-1990 |      |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                       |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| VSWR   | ≤1.5                       |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Gain (dBi)   | (°)                        | 0    | 7    | 14       | 0    | 7    | 14        | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8    |
|  | (dB)                       | 14.7 | 14.6 | 14.5     | 15.2 | 15.1 | 15.0      | 16.8 | 17.0 | 16.7      | 17.1 | 17.3 | 17.0      | 17.3 | 17.5 | 17.2 |
| Side lobe suppression for 1st side lobe above horizon (dB) | (°)                        | 0    | 7    | 14       | 0    | 7    | 14        | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8    |
|  | (dB)                       | 18   | 17   | 16       | 18   | 17   | 16        | 18   | 17   | 16        | 18   | 17   | 16        | 18   | 17   | 16   |
| 3dB beamwidth (horizontal)                                 | 67°                        |      |      | 65°      |      |      | 67°       |      |      | 65°       |      |      | 63°       |      |      |      |
| 3dB beamwidth (vertical)                                   | 15.3°                      |      |      | 14.5°    |      |      | 8.5°      |      |      | 7.5°      |      |      | 7.0°      |      |      |      |
| Isolation between ports (dB)                               | ≥30                        |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Front to back ratio (dB)                                   | ≥28                        |      |      |          |      |      | ≥25       |      |      |           |      |      |           |      |      |      |
| Cross polar ratio (dB)                                     | 0°                         | ≥18  |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
|  | ±60°                       | ≥10  |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Electrical downtilt  | 0° - 14°                   |      |      |          |      |      | 0° - 8°   |      |      |           |      |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                  | ≤-150 (2 × 43 dBm carrier) |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Max. CW input power (W)                                    | 300                        |      |      |          |      |      | 200       |      |      |           |      |      |           |      |      |      |
| Max. power per combined input (W)                          | 500                        |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Impedance (Ω)  | 50                         |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Grounding  | DC ground                  |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |

| Mechanical Properties               |                     |
|-------------------------------------|---------------------|
| Dimensions (H × W × D) (mm)         | 1390 × 368 × 99     |
| Packing dimensions (H × W × D) (mm) | 1666 × 498 × 220    |
| Net weight (kg)                     | 18.2                |
| Bracket weight (kg)                 | 4.6                 |
| Packing weight (kg)                 | 27.5                |
| Mechanical downtilt                 | 0° - 8°             |
| Mast diameter (mm)                  | 50 - 115            |
| Radome material                     | Fiberglass          |
| Operating temperature (°C)          | - 55 - + 65         |
| Windload frontal (N)                | 670 (v=150km/h)     |
| Windload lateral (N)                | 200 (v=150km/h)     |
| Windload rearside (N)               | 670 (v=150km/h)     |
| Max. wind velocity (km/h)           | 200                 |
| Connector                           | 2 × 7/16 DIN Female |



824 - 960 MHz



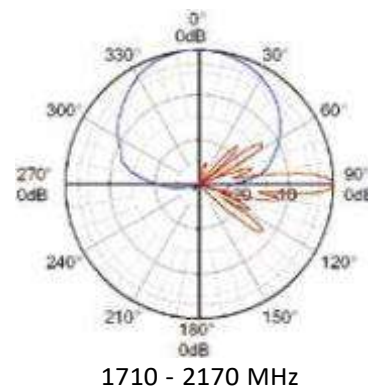
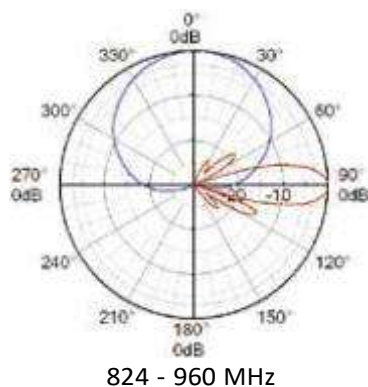
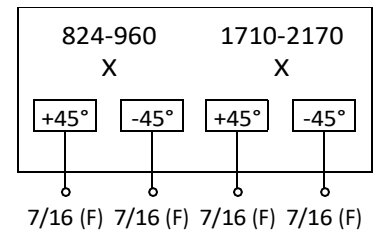
1710 - 2170 MHz

# DXX-824-960/1710-2170-65/65-15i/ 18i-M/M



| Electrical Properties  |                              |      |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
|--|------------------------------|------|------|------|----------|------|------|----------|-----------|------|------|------|-----------|------|-----------|------|
| Frequency range (MHz)  | 824 -894                     |      |      |      | 880 -960 |      |      |          | 1710-1880 |      |      |      | 1850-1990 |      | 1920-2170 |      |
| Polarization   | ±45°                         |      |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
| VSWR   | ≤1.5                         |      |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
| Gain (dBi)   | (°)                          | 0    | 7    | 14   | 0        | 7    | 14   | 0        | 4         | 8    | 0    | 4    | 8         | 0    | 4         | 8    |
|  | (dB)                         | 14.8 | 14.7 | 14.6 | 15.3     | 15.2 | 15.0 | 17.0     | 17.2      | 16.9 | 17.3 | 17.5 | 17.2      | 17.6 | 17.8      | 17.5 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 0    | 7    | 14   | 0        | 7    | 14   | 0        | 4         | 8    | 0    | 4    | 8         | 0    | 4         | 8    |
|  | (dB)                         | 18   | 17   | 16   | 18       | 17   | 16   | 18       | 17        | 16   | 18   | 17   | 16        | 18   | 17        | 16   |
| 3dB beamwidth (horizontal)                                   | 67°                          |      |      |      | 65°      |      |      |          | 67°       |      |      |      | 65°       |      | 63°       |      |
| 3dB beamwidth (vertical)                                     | 15.3°                        |      |      |      | 14.5°    |      |      |          | 8.5°      |      |      |      | 7.5°      |      | 7.0°      |      |
| Isolation between portsw (dB)                                | ≥30                          |      |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
| Front to back ratio (dB)                                     | ≥28                          |      |      |      |          |      |      | ≥25      |           |      |      |      |           |      |           |      |
| Cross polar ratio(dB)  | 0°                           | ≥18  |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
|  | ±60°                         | ≥10  |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
| Electrical downtilt  | 0° - 14°                     |      |      |      |          |      |      | 0° - 14° |           |      |      |      |           |      |           |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |      |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
| Max. CW input power (W)                                      | 500                          |      |      |      |          |      |      | 250      |           |      |      |      |           |      |           |      |
| Impedance (Ω)  | 50                           |      |      |      |          |      |      |          |           |      |      |      |           |      |           |      |
| Grounding  | DC ground                    |      |      |      |          |      |      |          |           |      |      |      |           |      |           |      |

| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1390 × 368 × 99   |
| Packing dimensions (H × W × D) (mm) | 1666 × 498 × 220  |
| Net weight (kg)                     | 18.2              |
| Bracket weight (kg)                 | 4.6               |
| Packing weight (kg)                 | 27.5              |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 670 (v=150km/h)   |
| Windload lateral (N)                | 200 (v=150km/h)   |
| Windload rearside (N)               | 670 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 4×7/16 DIN Female |

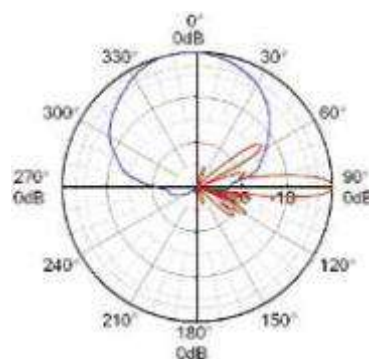
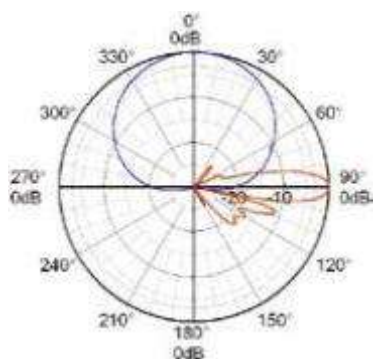
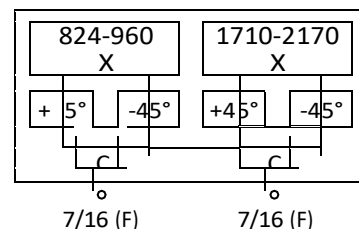


# DXX-824-960/1710-2170-65/65-16i/ 17.5i-M/M-C

| Electrical Properties                                      |                              |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
|--|------------------------------|------|------|----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| Frequency range (MHz)                                      | 824 -894                     |      |      | 880 -960 |      |      | 1710-1880 |      |      | 1850-1990 |      |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                         |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| VSWR   | ≤1.5                         |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Gain (dBi)   | (°)                          | 0    | 4    | 8        | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8    |
|  | (dB)                         | 15.7 | 15.8 | 15.6     | 15.9 | 16.1 | 15.8      | 16.8 | 17.0 | 16.7      | 17.1 | 17.3 | 17.0      | 17.3 | 17.5 | 17.2 |
| Side lobe suppression for 1st side lobe above horizon (dB) | (°)                          | 0    | 4    | 8        | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8    |
|  | (dB)                         | 18   | 17   | 16       | 18   | 17   | 16        | 18   | 17   | 16        | 18   | 17   | 16        | 18   | 17   | 16   |
| 3dB beamwidth (horizontal)                                 | 67°                          |      |      | 65°      |      |      | 67°       |      |      | 65°       |      |      | 63°       |      |      |      |
| 3dB beamwidth (vertical)                                   | 11.5°                        |      |      | 10.5°    |      |      | 8.5°      |      |      | 7.5°      |      |      | 7.0°      |      |      |      |
| Isolation between portsw (dB)                              | ≥30                          |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Front to back ratio (dB)                                   | ≥28                          |      |      |          |      |      | ≥25       |      |      |           |      |      |           |      |      |      |
| Cross polar ratio(dB)                                      | 0°                           | ≥18  |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
|  | ±60°                         | ≥10  |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Electrical downtilt  | 0° - 8°                      |      |      |          |      |      | 0° - 8°   |      |      |           |      |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                  | ≤-150 ( 2 × 43 dBm carrier ) |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Max. CW input power (W)                                    | 300                          |      |      |          |      |      | 200       |      |      |           |      |      |           |      |      |      |
| Max. power per combined input (W)                          | 500                          |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Impedance (Ω)  | 50                           |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Grounding  | DC ground                    |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |



| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1925 × 368 × 99   |
| Packing dimensions (H × W × D) (mm) | 2232 × 498 × 220  |
| Net weight (kg)                     | 22.5              |
| Bracket weight (kg)                 | 7.8               |
| Packing weight (kg)                 | 36.5              |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 910 (v=150km/h)   |
| Windload lateral (N)                | 270 (v=150km/h)   |
| Windload rearside (N)               | 910 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |

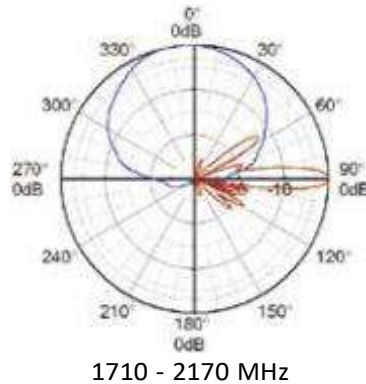
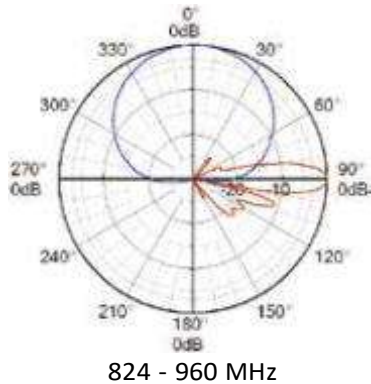
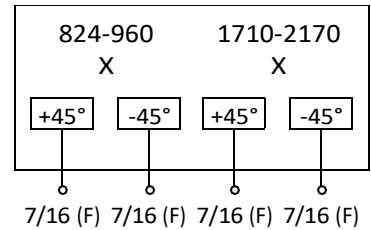


# DXX-824-960/1710-2170-65/65-16i/ 18i-M/M

| Electrical Properties  |                              |      |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
|--|------------------------------|------|----|------|----------|------|------|---------|-----------|------|------|------|-----------|------|-----------|------|
| Frequency range (MHz)  | 824 -894                     |      |    |      | 880 -960 |      |      |         | 1710-1880 |      |      |      | 1850-1990 |      | 1920-2170 |      |
| Polarization   | ±45°                         |      |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
| VSWR   | ≤1.5                         |      |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
| Gain (dBi)   | (°)                          | 0    | 4  | 8    | 0        | 4    | 8    | 0       | 4         | 8    | 0    | 4    | 8         | 0    | 4         | 8    |
|  | (dB)                         | 15.8 | 16 | 15.7 | 16       | 16.2 | 15.9 | 17      | 17.2      | 16.9 | 17.3 | 17.5 | 17.2      | 17.6 | 17.8      | 17.5 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 0    | 4  | 8    | 0        | 4    | 8    | 0       | 4         | 8    | 0    | 4    | 8         | 0    | 4         | 8    |
|  | (dB)                         | 18   | 17 | 16   | 18       | 17   | 16   | 18      | 17        | 16   | 18   | 17   | 16        | 18   | 17        | 16   |
| 3dB beamwidth (horizontal)                                   | 67°                          |      |    |      | 65°      |      |      |         | 67°       |      |      |      | 65°       |      | 63°       |      |
| 3dB beamwidth (vertical)                                     | 11.5°                        |      |    |      | 10.5°    |      |      |         | 8.5°      |      |      |      | 7.5°      |      | 7.0°      |      |
| Isolation between portsw (dB)                                | ≥30                          |      |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
| Front to back ratio (dB)                                     | ≥28                          |      |    |      |          |      |      | ≥25     |           |      |      |      |           |      |           |      |
| Cross polar ratio(dB)  | 0°                           | ≥18  |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
|  | ±60°                         | ≥10  |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
| Electrical downtilt  | 0° - 8°                      |      |    |      |          |      |      | 0° - 8° |           |      |      |      |           |      |           |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |      |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
| Max. CW input power (W)                                      | 500                          |      |    |      |          |      |      | 250     |           |      |      |      |           |      |           |      |
| Impedance (Ω)  | 50                           |      |    |      |          |      |      |         |           |      |      |      |           |      |           |      |
| Grounding  | DC ground                    |      |    |      |          |      |      |         |           |      |      |      |           |      |           |      |



| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1925 × 368 × 99   |
| Packing dimensions (H × W × D) (mm) | 2232 × 498 × 220  |
| Net weight (kg)                     | 22.5              |
| Bracket weight (kg)                 | 7.8               |
| Packing weight (kg)                 | 36.5              |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 910 (v=150km/h)   |
| Windload lateral (N)                | 270 (v=150km/h)   |
| Windload rearside (N)               | 910 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 4×7/16 DIN Female |

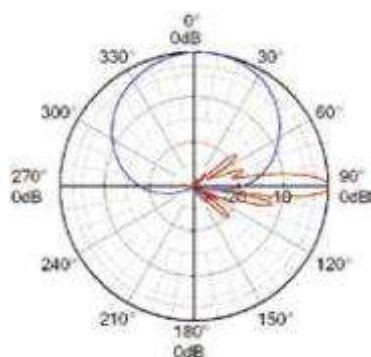
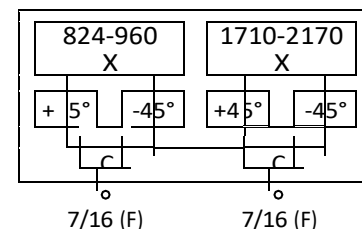


# DXX-824-960/1710-2170-65/65-17i/ 17.5i-M/M-C

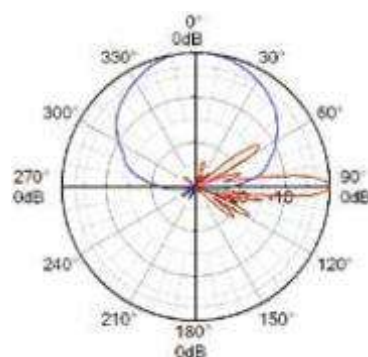


| Electrical Properties                                      |                            |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
|--|----------------------------|------|------|----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| Frequency range (MHz)                                      | 824 -894                   |      |      | 880 -960 |      |      | 1710-1880 |      |      | 1850-1990 |      |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                       |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| VSWR   | ≤1.5                       |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Gain (dBi)   | (°)                        | 0    | 4    | 8        | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8    |
|  | (dB)                       | 16.7 | 16.8 | 16.5     | 17.1 | 17.2 | 16.9      | 16.7 | 16.9 | 16.6      | 17.0 | 17.2 | 16.9      | 17.3 | 17.5 | 17.2 |
| Side lobe suppression for 1st side lobe above horizon (dB) | (°)                        | 0    | 4    | 8        | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8         | 0    | 4    | 8    |
|  | (dB)                       | 18   | 17   | 16       | 18   | 17   | 16        | 18   | 17   | 16        | 18   | 17   | 16        | 18   | 17   | 16   |
| 3dB beamwidth (horizontal)                                 | 67°                        |      |      | 65°      |      |      | 67°       |      |      | 65°       |      |      | 63°       |      |      |      |
| 3dB beamwidth (vertical)                                   | 8.3°                       |      |      | 7.2°     |      |      | 8.0°      |      |      | 7.5°      |      |      | 7.0°      |      |      |      |
| Isolation between ports (dB)                               | ≥30                        |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Front to back ratio (dB)                                   | ≥28                        |      |      |          |      |      | ≥25       |      |      |           |      |      |           |      |      |      |
| Cross polar ratio (dB)                                     | 0°                         | ≥18  |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
|  | ±60°                       | ≥10  |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Electrical downtilt  | 0° - 8°                    |      |      |          |      |      | 0° - 8°   |      |      |           |      |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                  | ≤-150 (2 × 43 dBm carrier) |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Max. CW input power (W)                                    | 300                        |      |      |          |      |      | 200       |      |      |           |      |      |           |      |      |      |
| Max. power per combined input (W)                          | 500                        |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Impedance (Ω)  | 50                         |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |
| Grounding  | DC ground                  |      |      |          |      |      |           |      |      |           |      |      |           |      |      |      |

| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2449 × 368 × 99   |
| Packing dimensions (H × W × D) (mm) | 2756 × 498 × 220  |
| Net weight (kg)                     | 26.7              |
| Bracket weight (kg)                 | 7.8               |
| Packing weight (kg)                 | 41.6              |
| Mechanical downtilt                 | 0° - 15°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 1152 (v=150km/h)  |
| Windload lateral (N)                | 270 (v=150km/h)   |
| Windload rearside (N)               | 1152 (v=150km/h)  |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 2×7/16 DIN Female |



824 - 960 MHz



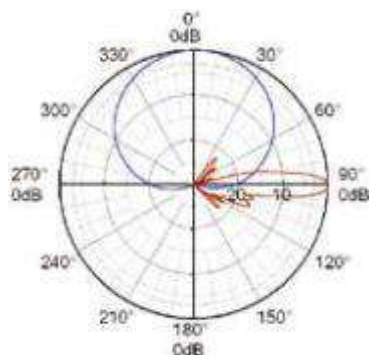
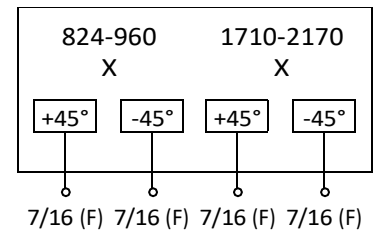
1710 - 2170 MHz

# DXX-824-960/1710-2170-65/65-17.5i/ 18i-M/M

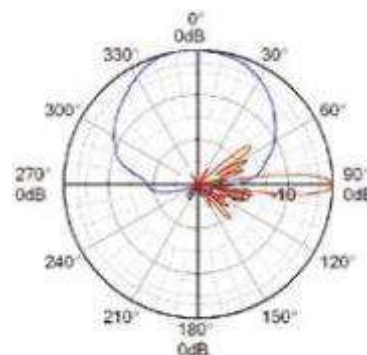
| Electrical Properties  |                              |          |           |           |           |
|--|------------------------------|----------|-----------|-----------|-----------|
| Frequency range (MHz)  | 824 -894                     | 880 -960 | 1710-1880 | 1850-1990 | 1920-2170 |
| Polarization   | ±45°                         |          |           |           |           |
| VSWR   | ≤1.5                         |          |           |           |           |
| Gain (dBi)   | 17.0                         | 17.5     | 17.0      | 17.5      | 18.0      |
| Side lobe suppression for first side lobe above horizon (dB) | Typ. 18                      | Typ. 18  | Typ. 18   | Typ. 18   | Typ. 18   |
| 3dB beamwidth (horizontal)                                   | 65°                          | 63°      | 67°       | 65°       | 63°       |
| 3dB beamwidth (vertical)                                     | 8.5°                         | 7.5°     | 8.2°      | 7.5°      | 7.0°      |
| Isolation between portsw (dB)                                | ≥30                          |          |           |           |           |
| Front to back ratio (dB)                                     | ≥27                          |          | ≥25       |           |           |
| Cross polar ratio(dB)  | 0°                           | Typ. 20  |           |           |           |
|  | ±60°                         | ≥10      |           |           |           |
| Electrical downtilt  | 0° - 10°                     |          | 0° - 8°   |           |           |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |          |           |           |           |
| Max. CW input power (W)                                      | 500                          |          | 250       |           |           |
| Impedance (Ω)  | 50                           |          |           |           |           |
| Grounding  | DC ground                    |          |           |           |           |



| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2449 × 368 × 99   |
| Packing dimensions (H × W × D) (mm) | 2756 × 498 × 220  |
| Net weight (kg)                     | 30                |
| Bracket weight (kg)                 | 7.8               |
| Packing weight (kg)                 | 44                |
| Mechanical downtilt                 | 0° - 15°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 1000 (v=150km/h)  |
| Windload lateral (N)                | 270 (v=150km/h)   |
| Windload rearside (N)               | 1000 (v=150km/h)  |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 4×7/16 DIN Female |



824 - 960 MHz



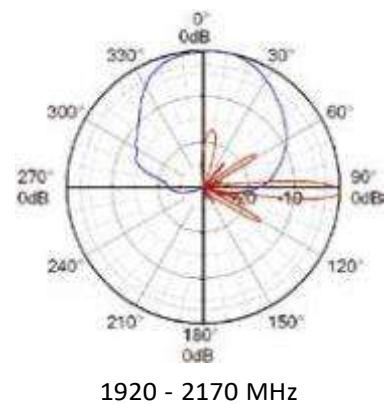
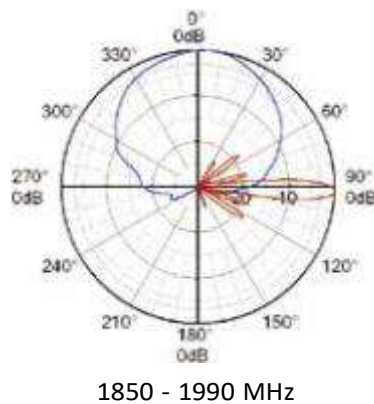
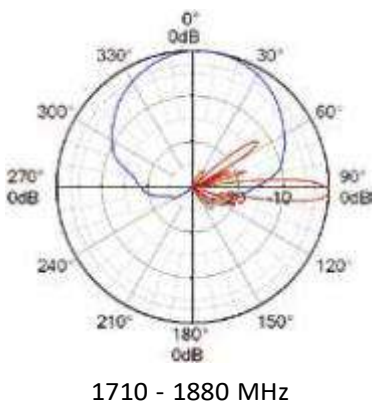
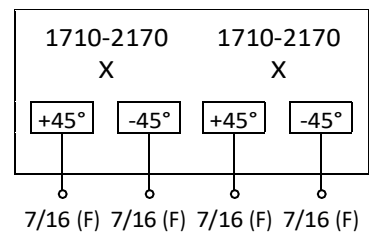
1710 - 2170 MHz

# DXX-1710-2170/1710-2170-65/65-18i/ 18i-M/M

| Electrical Properties  |                              |         |      |           |      |      |           |      |      |      |
|--|------------------------------|---------|------|-----------|------|------|-----------|------|------|------|
| Frequency range (MHz)  | 1710-1880                    |         |      | 1850-1990 |      |      | 1920-2170 |      |      |      |
| Polarization   | ±45°                         |         |      |           |      |      |           |      |      |      |
| VSWR   | ≤1.4                         |         |      |           |      |      |           |      |      |      |
| Gain (dBi)   | (°)                          | 2       | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 17.8    | 17.7 | 17.5      | 17.9 | 17.7 | 17.5      | 18.0 | 17.7 | 17.5 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                          | 2       | 6    | 10        | 2    | 6    | 10        | 2    | 6    | 10   |
|  | (dB)                         | 18      | 17   | 16        | 18   | 17   | 16        | 18   | 18   | 17   |
| 3dB beamwidth (horizontal)                                   | 66°                          |         |      | 64°       |      |      | 62°       |      |      |      |
| 3dB beamwidth (vertical)                                     | 7.5°                         |         |      | 6.8°      |      |      | 6.4°      |      |      |      |
| Isolation between portsw (dB)                                | ≥30                          |         |      |           |      |      |           |      |      |      |
| Front to back ratio (dB)                                     | Typ. 30                      |         |      |           |      |      |           |      |      |      |
| Cross polar ratio(dB)  | 0°                           | Typ. 20 |      |           |      |      |           |      |      |      |
|  | ±60°                         | Typ. 10 |      |           |      |      |           |      |      |      |
| Electrical downtilt  | 2° - 10°                     |         |      |           |      |      |           |      |      |      |
| Intermodulation IM3 (dBc)                                    | ≤-150 ( 2 × 43 dBm carrier ) |         |      |           |      |      |           |      |      |      |
| Max. CW input power (W)                                      | 300                          |         |      |           |      |      |           |      |      |      |
| Impedance (Ω)  | 50                           |         |      |           |      |      |           |      |      |      |
| Grounding  | DC ground                    |         |      |           |      |      |           |      |      |      |



| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1306 × 326 × 79   |
| Packing dimensions (H × W × D) (mm) | 1715 × 430 × 145  |
| Net weight (kg)                     | 13                |
| Bracket weight (kg)                 | 5                 |
| Packing weight (kg)                 | 21                |
| Mechanical downtilt                 | 0° - 16°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 320 (v=150km/h)   |
| Windload lateral (N)                | 115 (v=150km/h)   |
| Windload rearside (N)               | 475 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 4×7/16 DIN Female |





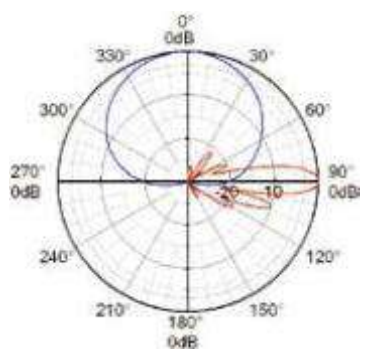
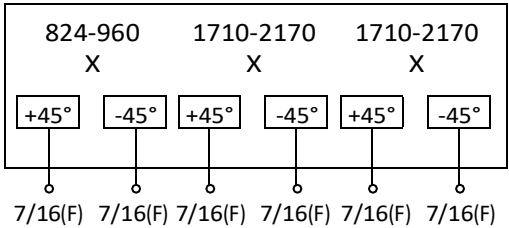
# DXXX-824-960/1710-2170/1710-2170-65/65/65-16.5i/16.5i/16i-M/M/M

Triple-band Antennas

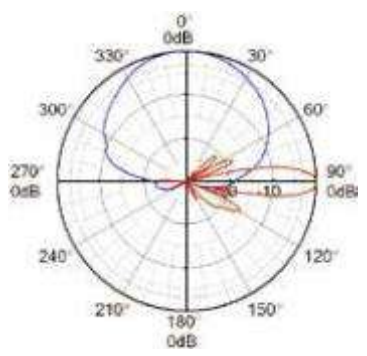


| Electrical Properties                                      |                        |                            |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
|--|------------------------|----------------------------|------|------|------|----------|------|------|------|-----------|------|------|------|-----------|------|------|--|-----------|--|--|--|
| Frequency range (MHz)                                      |                        | 824 -894                   |      |      |      | 880 -960 |      |      |      | 1710-1880 |      |      |      | 1850-1990 |      |      |  | 1920-2170 |  |  |  |
| Polarization   |                        | ±45°                       |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
| VSWR   |                        | ≤1.5                       |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
| Gain   | (°)                    | 0                          | 4    | 8    | 0    | 4        | 8    | 0    | 4    | 8         | 0    | 4    | 8    | 0         | 4    | 8    |  |           |  |  |  |
|  | 824-960 (dBi)          | 16.0                       | 16.2 | 15.9 | 16.3 | 16.5     | 16.2 |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
|  | 1710-2170 Bottom (dBi) |                            |      |      |      |          |      | 15.8 | 16.0 | 15.7      | 16.1 | 16.2 | 15.9 | 16.3      | 16.5 | 16.2 |  |           |  |  |  |
|  | 1710-2170 Top (dBi)    |                            |      |      |      |          |      | 15.3 | 15.5 | 15.2      | 15.6 | 15.7 | 15.4 | 15.8      | 16.0 | 15.7 |  |           |  |  |  |
| Side lobe suppression for 1st side lobe above horizon (dB) | (°)                    | 0                          | 4    | 8    | 0    | 4        | 8    | 0    | 4    | 8         | 0    | 4    | 8    | 0         | 4    | 8    |  |           |  |  |  |
|  | (dB)                   | 18                         | 17   | 16   | 18   | 17       | 16   | 18   | 17   | 16        | 18   | 17   | 16   | 18        | 17   | 16   |  |           |  |  |  |
| 3dB beamwidth (horizontal)                                 |                        | 67°                        |      |      |      | 65°      |      |      |      | 67°       |      |      |      | 65°       |      |      |  | 63°       |  |  |  |
| 3dB beamwidth (vertical)                                   |                        | 11.5°                      |      |      |      | 10.8°    |      |      |      | 10.7°     |      |      |      | 9.9°      |      |      |  | 9.2°      |  |  |  |
| Isolation between ports (dB)                               |                        | ≥30                        |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
| Front to back ratio (dB)                                   |                        | ≥28                        |      |      |      |          |      |      |      | ≥25       |      |      |      |           |      |      |  |           |  |  |  |
| Cross polar ratio (dB)                                     | 0°                     | Typ. 20                    |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
|  | ±60°                   | ≥10                        |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
| Electrical downtilt  |                        | 0° - 8°                    |      |      |      |          |      |      |      | 0° - 8°   |      |      |      |           |      |      |  |           |  |  |  |
| Intermodulation IM3 (dBc)                                  |                        | ≤-150 (2 × 43 dBm carrier) |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
| Max. CW input power (W)                                    |                        | 500                        |      |      |      |          |      |      |      | 250       |      |      |      |           |      |      |  |           |  |  |  |
| Impedance (Ω)  |                        | 50                         |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |
| Grounding  |                        | DC ground                  |      |      |      |          |      |      |      |           |      |      |      |           |      |      |  |           |  |  |  |

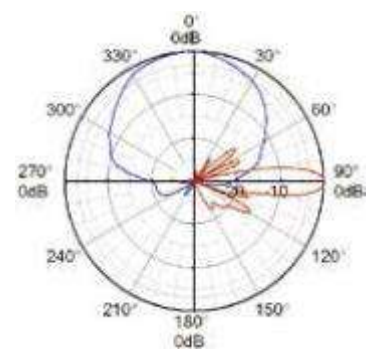
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 1925 × 368 × 99   |
| Packing dimensions (H × W × D) (mm) | 2232 × 498 × 220  |
| Net weight (kg)                     | 24.7              |
| Bracket weight (kg)                 | 7.7               |
| Packing weight (kg)                 | 38.7              |
| Mechanical downtilt                 | 0° - 8°           |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 910 (v=150km/h)   |
| Windload lateral (N)                | 270 (v=150km/h)   |
| Windload rearside (N)               | 910 (v=150km/h)   |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 6×7/16 DIN Female |



824 - 960 MHz



1710 - 2170 MHz



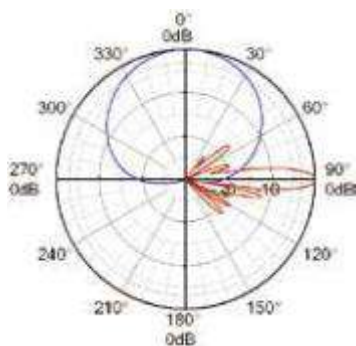
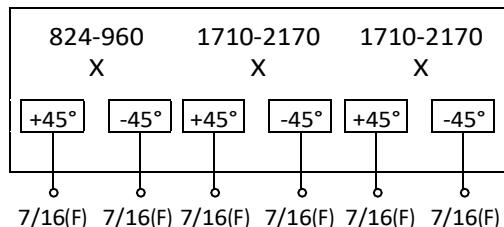
1710 - 2170 MHz

# DXXX-824-960/1710-2170/1710-2170-65/65/65-17.5i/17.5i/17i-M/M/M

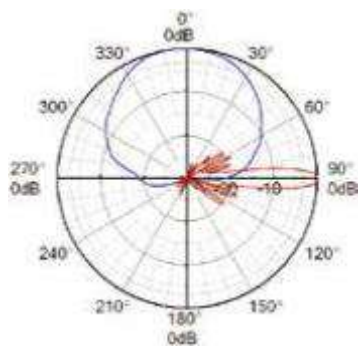
| Electrical Properties  |                        |                              |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
|--|------------------------|------------------------------|------|------|----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|
| Frequency range (MHz)  |                        | 824 -894                     |      |      | 880 -960 |      |      | 1710-1880 |      |      | 1850-1990 |      |      | 1920-2170 |      |      |
| Polarization   |                        | ±45°                         |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
| VSWR   |                        | ≤1.5                         |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
| Gain   | (°)                    | 0                            | 4    | 8    | 0        | 4    | 8    | 0         | 4    | 8    | 0         | 4    | 8    | 0         | 4    | 8    |
|  | 824-960 (dBi)          | 16.8                         | 17.0 | 16.8 | 17.3     | 17.5 | 17.2 |           |      |      |           |      |      |           |      |      |
|  | 1710-2170 Bottom (dBi) |                              |      |      |          |      |      | 16.7      | 17.0 | 16.7 | 16.9      | 17.3 | 16.9 | 17.3      | 17.5 | 17.2 |
|  | 1710-2170 Top (dBi)    |                              |      |      |          |      |      | 16.3      | 16.6 | 16.3 | 16.6      | 16.9 | 16.6 | 16.9      | 17.1 | 16.9 |
| Side lobe suppression for first side lobe above horizon (dB) | (°)                    | 0                            | 4    | 8    | 0        | 4    | 8    | 0         | 4    | 8    | 0         | 4    | 8    | 0         | 4    | 8    |
|  | (dB)                   | 18                           | 17   | 16   | 18       | 17   | 16   | 18        | 17   | 16   | 18        | 17   | 16   | 18        | 17   | 16   |
| 3dB beamwidth (horizontal)                                   |                        | 67°                          |      |      | 65°      |      |      | 67°       |      |      | 65°       |      |      | 63°       |      |      |
| 3dB beamwidth (vertical)                                     |                        | 8.3°                         |      |      | 7.2°     |      |      | 8.0°      |      |      | 7.5°      |      |      | 7.0°      |      |      |
| Isolation between portsw (dB)                                |                        | ≥30                          |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
| Front to back ratio (dB)                                     |                        | ≥25                          |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
| Cross polar ratio(dB)  | 0°                     | ≥18                          |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
|  | ±60°                   | ≥10                          |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
| Electrical downtilt  |                        | 0° - 8°                      |      |      |          |      |      | 0° - 8°   |      |      |           |      |      |           |      |      |
| Intermodulation IM3 (dBc)                                    |                        | ≤-150 ( 2 × 43 dBm carrier ) |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
| Max. CW input power (W)                                      |                        | 500                          |      |      |          |      |      | 250       |      |      |           |      |      |           |      |      |
| Impedance (Ω)  |                        | 50                           |      |      |          |      |      |           |      |      |           |      |      |           |      |      |
| Grounding  |                        | DC ground                    |      |      |          |      |      |           |      |      |           |      |      |           |      |      |



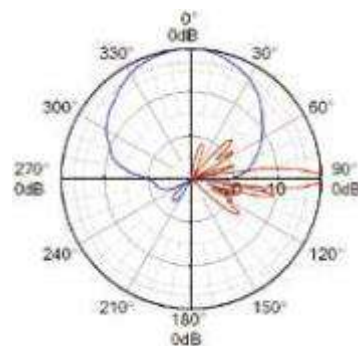
| Mechanical Properties               |                   |
|-------------------------------------|-------------------|
| Dimensions (H × W × D) (mm)         | 2449 × 368 × 99   |
| Packing dimensions (H × W × D) (mm) | 2756 × 498 × 220  |
| Net weight (kg)                     | 30.5              |
| Bracket weight (kg)                 | 7.8               |
| Packing weight (kg)                 | 44                |
| Mechanical downtilt                 | 0° - 15°          |
| Mast diameter (mm)                  | 50 - 115          |
| Radome material                     | Fiberglass        |
| Operating temperature (°C)          | - 55 - + 65       |
| Windload frontal (N)                | 1000 (v=150km/h)  |
| Windload lateral (N)                | 270 (v=150km/h)   |
| Windload rearside (N)               | 1000 (v=150km/h)  |
| Max. wind velocity (km/h)           | 200               |
| Connector                           | 6×7/16 DIN Female |



824 - 960 MHz



1710 - 2170 MHz



1710 - 2170 MHz

# RCU0068/0074/0081/0082/0090/0091/0094/0088

<http://www.tt-telecom.ru>

Отдел продаж: [market@tt-telecom.ru](mailto:market@tt-telecom.ru)

- Compliant to AISG1.1 and 3GPP/AISG2.0 protocol.
- Supports the auto-locking function, the mechanical displacement of the already adjusted phase shifter is kept unaltered in the case of power-up or power-off.
- Supports the saving of parameters in the power-off.
- Supports the remote online upgrade of software in an integrated manner.
- Supports the inspection on the movements of the phase shifter.
- Supports the connection to the OMC for integrated management.
- Supports the daisy chain link with a maximum number of cascaded links 27.
- Supports the temperature monitor function (optional).



| Type                             | RCU0068/0074/0081/0082/0090/0091/0094  | RCU0088 |
|----------------------------------|--|---------|
| <b>Electrical performance</b>    |  |         |
| DC voltage (V)                   | +10 to +30   |         |
| Power consumption (mA)           | <800 (when the 12-V motor active)<br>≤50 (when the motor stays static)   |         |
| Electrical interface             | One 8-pin male connector (IEC 60130-9) is used to input AISG signals and one 8-pin female connector (IEC 60130-9) is used for daisy chain connection with the AISG signals.<br>The pins are defined as follows:<br>1: DC 2: (N/A) No Application 3:RS-485B 4: N/A 5:RS-485A 6: DC input/output 7: DC loop 8: N/A |         |
| Protocol                         | AISG1.1  | AISG2.0 |
| <b>Mechanical performance</b>    |  |         |
| Mechanical interface             | Connect RCU with antenna   |         |
| Installation position            | Antenna base   |         |
| Dimensions (mm)                  | 152 × 56 × 66 (connector excluded)   |         |
| Housing material                 | Housing: aluminum; cover: aluminum   |         |
| Weight (kg)                      | 0.65   |         |
| Appearance color                 | Gray   |         |
| <b>Environmental performance</b> |  |         |
| Operating temperature (°C)       | -40 to +60   |         |
| Protection level                 | IP24   |         |
| <b>Adjustment performance</b>    |  |         |
| Adjust Time (full range) (min)   | <2   |         |
| Calibration time (min)           | <4   |         |

\*The correlations of the preceding RCUs and antennas are as follows:

| RCU                | Antenna Type  | Antenna Frequency |
|--------------------|---|-------------------|
| RCU0068(AISG V1.1) | DXX-824-960/1710-2170-65/65-17.5i/18i-M/M                       | 1710--2170MHz     |
|                    | DXX-824-960/1710-2170-65/65-17i/17.5i-M/M-C                     | 1710--2170MHz     |
|                    | DXX-824-960/1710-2170-65/65-15i/18i-M/M                         | 1710--2170MHz     |
|                    | DXX-824-960/1710-2170-65/65-15i/17.5i-M/M-C                     | 1710--2170MHz     |
|                    | DXX-824-960/1710-2170-65/65-16i/18i-M/M                         | 1710--2170MHz     |
|                    | DXX-824-960/1710-2170-65/65-16i/17.5i-M/M-C                     | 1710--2170MHz     |
| RCU0074(AISG V1.1) | DXX-824-960/1710-2170-65/65-17.5i/18i-M/M                       | 824-960MHz        |
|                    | DXX-824-960/1710-2170-65/65-17i/17.5i-M/M-C                     | 824-960MHz        |
| RCU0081(AISG V1.1) | DXXX-824-960/1710-2170/1710-2170-65/65/65-17.5i/17.5i/17i-M/M/M | 824-960MHz        |
| RCU0082(AISG V1.1) | DXXX-824-960/1710-2170/1710-2170-65/65/65-17.5i/17.5i/17i-M/M/M | 1710--2170MHz     |
| RCU0090(AISG V1.1) | DXXX-824-960/1710-2170/1710-2170-65/65/65-16.5i/16.5i/16i-M/M/M | 824-960MHz        |
| RCU0091(AISG V1.1) | DXXX-824-960/1710-2170/1710-2170-65/65/65-16.5i/16.5i/16i-M/M/M | 1710--2170MHz     |
| RCU0094(AISG V1.1) | DXX-824-960/1710-2170-65/65-16i/18i-M/M                         | 824-960MHz        |
|                    | DXX-824-960/1710-2170-65/65-16i/17.5i-M/M-C                     | 824-960MHz        |
| RCU0088(AISG V2.0) | DXX-824-960/1710-2170-65/65-15i/18i-M/M                         | All Frequency     |
|                    | DXX-824-960/1710-2170-65/65-15i/17.5i-M/M-C                     |                   |
|                    | DXX-824-960/1710-2170-65/65-16i/18i-M/M                         |                   |
|                    | DXX-824-960/1710-2170-65/65-16i/17.5i-M/M-C                     |                   |
|                    | DXX-824-960/1710-2170-65/65-17.5i/18i-M/M                       |                   |
|                    | DXX-824-960/1710-2170-65/65-17i/17.5i-M/M-C                     |                   |
|                    | DXXX-824-960/1710-2170/1710-2170-65/65/65-16.5i/16.5i/16i-M/M/M |                   |
|                    | DXXX-824-960/1710-2170/1710-2170-65/65/65-17.5i/17.5i/17i-M/M/M |                   |

# RCU0075/0089

- Compliant to AISG1.1 and 3GPP/AISG2.0 protocol.
- Supports convenient installation with small sizes
- Supports the auto-locking function, the mechanical displacement of the already adjusted phase shifter is kept unaltered in the case of power-up or power-off.
- Supports the saving of parameters in the power-off.
- Supports the remote online upgrade of software in an integrated manner.
- Supports the inspection on the movements of the phase shifter.
- Supports the connection to the OMC for integrated management.
- Supports the daisy chain link with a maximum number of cascaded links 27.
- Supports the temperature inspection function (optional).



| Type                             | RCU0075   | RCU0089   |
|----------------------------------|---|-----------|
| <b>Electrical performance</b>    |   |           |
| DC voltage (V)                   | +10 to +30  |           |
| Power consumption (mA)           | <600 (when the 12-V motor active)<br>≤50 (when the motor stays static)  |           |
| Electrical interface             | One 8-pin male connector (IEC 60130-9) is used to input AISG signals and one 8-pin female connector (IEC 60130-9) is used for daisy chain connection with the AISG signals.<br>The pins are defined as follows:<br>1: DC      2: (N/A) No Application      3:RS-485B      4: N/A<br>5:RS-485A      6: DC input/output      7: DC loop      8: N/A |           |
| Protocol                         | AISG V1.1   | AISG V2.0 |
| <b>Mechanical performance</b>    |   |           |
| Mechanical interface             | Connect RCU with antenna  |           |
| Installation position            | Antenna base  |           |
| Dimensions (mm)                  | 157 × 47 × 56 (connector excluded)  |           |
| Housing material                 | Housing: aluminum; cover: aluminum  |           |
| Weight (kg)                      | 0.6   |           |
| Appearance color                 | Gray  |           |
| <b>Environmental performance</b> |   |           |
| Working temperature (°C)         | -40 to + 60   |           |
| Protection level                 | IP24  |           |
| <b>Adjustment performance</b>    |   |           |
| Adjust Time (full range) (min)   | <2  |           |
| Calibration time (min)           | <4  |           |

\* The correlations of the preceding RCUs and antennas are as follows:

| RCU                                       | Antenna Type                              | Antenna Frequency |
|---|---|-------------------|
| RCU0075(AISG V1.1)                        | DX-806-960-65-15.5i-M                     | All Frequency     |
|   | DX-806-960-65-17.5i-M                     | All Frequency     |
|   | DX-806-960-90-17i-M                       | All Frequency     |
|   | DX-1710-2170-33-21i-M                     | All Frequency     |
|   | DX-1710-2170-65-18i-M                     | All Frequency     |
|   | DX-1710-2170-65-19.5i-M                   | All Frequency     |
|   | DX-1710-2170-90-17i-M                     | All Frequency     |
| RCU0089(AISG V2.0)                        | DXX-1710-2170/1710-2170-65/65-18i/18i-M/M | All Frequency     |
|   | DX-806-960-65-15.5i-M                     | All Frequency     |
|   | DX-806-960-65-17.5i-M                     | All Frequency     |
|   | DX-806-960-90-17i-M                       | All Frequency     |
|   | DX-1710-2170-33-21i-M                     | All Frequency     |
|   | DX-1710-2170-65-18i-M                     | All Frequency     |
|   | DX-1710-2170-65-19.5i-M                   | All Frequency     |
|   | DX-1710-2170-90-17i-M                     | All Frequency     |
| DXX-1710-2170/1710-2170-65/65-18i/18i-M/M | All Frequency                             |                   |




# Base Station Antenna Catalogue

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