

Directional Coupler



Directional Coupler, 700-2700 MHz, -160 dBc, 4.3-10 Female

DC-7027-xx-160-43F

- Wide-band design, cover 698-2700MHz
- Application: Indoor/Outdoor Low PIM
- Interface: N Female, 4-3-10 Female
- Color: Light Gray
- Compact size and light weight, Easy to be installed



General Specifications

Electrical Specifications					
Part Number	DC-7027-05-160-43F	DC-7027-06-160-43F	DC-7027-07-160-43F	DC-7027-08-160-43F	DC-7027-10-160-43F
Coupling Value (dB)	5	6	7	8	10
Coupling Tolerance (dB)	±0.8	±0.8	±0.8	±0.8	±1.0
Insertion Loss (dB)	< 2.15	< 1.76	< 1.47	< 1.15	< 0.96
Isolation (dB)	> 23	> 24	> 25	> 26	> 28
Part Number	DC-7027-13-160-43F	DC-7027-15-160-43F	DC-7027-20-160-43F	DC-7027-30-160-43F	DC-7027-40-160-43F
Coupling Value (dB)	13	15	20	30	40
Coupling Tolerance (dB)	±1.0	±1.0	±1.0	±1.5	±1.5
Insertion Loss (dB)	< 0.6	< 0.44	< 0.34	< 0.3	< 0.3
Isolation (dB)	> 31	> 33	> 38	> 48	> 55
Frequency Range (MHz)	698-2700				
Return Loss (dB)	≥19				
PIM3 (@2x43 dBm Carrier) (dBc)	< -160				
Input Power (W)	< 300				
Peak Power (W)	< 1500				
Impedance (Ω)	50				

Mechanical Specifications

Connectors	4.3-10 Female
Dimensions, HxWxD(excluding connectors and mounting bracket)(mm)	126.4x45.4x25
Weight (including connectors and mounting bracket) (kg)	0.54
Packing Size(mm)	180x100x55
Color	Black
Mounting	Wall Mounted

Environmental Specifications

Operational Temperature (°C)	-40 to +65
Operational Humidity (%)	≤95
Ingress Protection Class	IP66 (IP67 optional)

Simplified dimensional drawing

