

Directional Coupler

380-3800MHz

DC-3803800-xdB

- ◆ Wide-band design, cover 380-3800MHz
- ◆ Low PIM
- ◆ Compact size and light weight
- ◆ Easy to be installed
- ◆ Suitable for indoor and outdoor applications
- ◆ Connector Type, Twisthead



Technical Data

Electrical Specifications

Type No.	N Female	DC-3803800-3dB-N	DC-3803800-6dB-N	DC-3803800-7dB-N	DC-3803800-8dB-N	DC-3803800-10dB-N	DC-3803800-13dB-N
	4.3-10 Female	DC-3803800-3dB-4.3-10	DC-3803800-6dB-4.3-10	DC-3803800-7dB-4.3-10	DC-3803800-8dB-4.3-10	DC-3803800-10dB-4.3-10	DC-3803800-13dB-4.3-10
Coupling Value (dB)		3	6	7	8	10	13
Coupling Tolerance (dB)@340-550MHz		±1.3	±1.3	±1.4	±1.5	±1.5	±1.5
Coupling Tolerance (dB)@550-2700MHz		±1.0	±1.0	±1.0	±1.2	±1.2	±1.3
Insertion Loss (dB)		< 4.2	< 1.9	< 1.6	< 1.25	< 1.1	< 0.8
Isolation (dB)		> 21	> 24	> 25	> 26	> 32	> 30
Type No.	N Female	DC-3803800-15dB-N	DC-3803800-20dB-N	DC-3803800-30dB-N			
	4.3-10 Female	DC-3803800-15dB-4.3-10	DC-3803800-20dB-4.3-10	DC-3803800-30dB-4.3-10			
Coupling Value (dB)		15	20	30			
Coupling Tolerance (dB)@340-550MHz		±1.5	±2.0	±2.0			
Coupling Tolerance (dB)@550-2700MHz		±1.3	±1.5	±1.6			
Insertion Loss (dB)		< 0.7	< 0.5	< 0.3			
Isolation (dB)		> 32	> 35	> 45			
Frequency Range (MHz)	380-3800						
Return Loss (dB)	≥19						
PIM3 (@2x43 dBm Carrier) (dBc)	< -155						
Input Power (W)	< 300(N&4.3-10 Female), < 500(7-16 Female)						
Peak Power (W)	< 800(N Female), < 1500(4.3-10 Female)						
Impedance (Ω)	50						

Mechanical Specifications

Dimensions, HxWxD(excluding connectors) (mm)	177x47x30
Weight (including connectors and mounting bracket) (kg)	0.75 (N Female) 0.83 (4.3-10 Female)
Packing Size(mm)	270x75x40
Color	Black
Mounting	Wall Mounted

Environmental Specifications

Operational Temperature (°C)	-35 to +65
Operational Humidity (%)	≤95
Ingress Protection Class	IP65(Indoor and Outdoor)

