

Multi-Octave Directional Couplers to 18 GHz

- Multi-Octave Bands to 18 GHz
- T6, 10, 20 and 30dB Coupling
- 50 W Power Handling
- Type N, SMA, and 2.92mm Connectors Available
- Designed to meet MIL-DTL-15370
- Environmental Screening Available



Frequency Range (GHz)	Connectors	Model Number	Coupling (db, nom.)	Frequency Sensitivity (dB, max.)	Directivity (dB, min.)	Insertion Loss (dB, max.)	Main Line VSWR	Coupled Line VSWR
							(x.xx:1, max.)	(x.xx:1, max.)
0.5 - 2.0	SMA jack	DC4-06S-1.25	6 ± 1.00	± 0.75	23	0.35	1.20	1.20
		DC4-10S-1.25	10 ± 1.00	± 0.75	23	0.35	1.20	1.20
		DC4-20S-1.25G	20 ± 1.00	± 0.75	23	0.35	1.20	1.20
1.0 - 4.0	SMA jack	DC4-10S-2.5G	10 ± 1.00	± 0.50	23	0.35	1.20	1.20
		DC4-20S-2.5G	20 ± 1.00	± 0.50	23	0.40	1.20	1.20
2.0 - 8.0	SMA jack	DC4-06S-5G	6 ± 1.00	± 0.30	20	0.50	1.25	1.25
		DC4-10S-5G	10 ± 1.00	± 0.40	20	0.35	1.25	1.25
		DC4-20S-5G	20 ± 1.00	± 0.40	20	0.40	1.25	1.25
4.0 - 12.4	SMA jack	DC3-10S-8G	10 ± 1.00	± 0.40	17	0.50	1.30	1.30
		DC3-20S-8G	20 ± 1.00	± 0.40	17	0.50	1.30	1.30
4.0 - 18.0	SMA jack	DC3-30S-11G	30 ± 1.25	± 0.75	15	0.60	1.35	1.35
7.0 - 18.0	SMA jack	DC3-10S-12G	10 ± 1.25	± 0.75	15	0.60	1.35	1.35
6.0 - 18.0	SMA jack	DC3-20S-12G	20 ± 1.25	± 0.60	15	0.60	1.35	1.35

Coupling is referenced to the output and does not include frequency sensitivity.

Insertion loss does not include coupling loss.

Other frequency bands, coupling values and connectors available.

Multi-Octave Directional Couplers to 18 GHz

Electrical Specifications

Impedance: 50 Ω , nominal

Coupled "Loss"

6 dB units: 1.250 dB

10 dB units: 0.460 dB

20 dB units: 0.044 dB

30 dB units: 0.004 dB

Input Power (Forward): 50 Watts, max.

Reflected Power

6 dB units: 2 Watts, max.

10 dB units: 5 Watts, max.

20 dB units: 50 Watts, max.

30 dB units: 50 Watts, max.

Mechanical & Environmental Specifications

Operating Temperature -55 to +85 °C