

# Wide Band Directional Couplers to 46 GHz

- High Bandwidth to 46 GHz
- 10, 16, 20dB Coupling
- 20 W Power Handling
- 2.92mm and 2.4mm 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.)	Coupled Power Loss (dB, max.)	Main Line VSWR	Coupled Line VSWR
								(x.xx:1, max.)	(x.xx:1, max.)
0.5 - 40.0	2.9 mm jack	DC80-10K-20G	10 ± 1.0	± 1.50	10	3.3	0.460	1.70	1.80
6.0 - 40.0	2.9 mm jack	DC7-10K-23G	10 ± 1.0	± 0.70	12	1.7	0.460	1.80	1.90
		DC7-20K-23G	20 ± 1.0	± 0.70	12	1.3	0.044	1.80	1.90
18.0 - 40.0	2.9 mm jack	DC3-10K-29G	10 ± 1.0	± 0.65	12	1.7	0.460	1.80	1.90
		DC3-20K-29G	20 ± 1.0	± 0.65	12	1.3	0.044	1.80	1.90

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.**

#### Electrical Specifications

Impedance: 50 Ω, nominal

Reflected Power

10/12 dB units: 4 Watts, max.

16/20 dB units: 50 Watts, max.

#### Mechanical & Environmental Specifications

Operating Temperature -55 to +85 °C