

## Ultra Wide Band Directional Couplers - 2.92mm

- High Bandwidth to 46 GHz
- 10, 16dB Coupling
- 25 W Power Handling
- 2.92mm and 2.4mm Connectors Available
- Designed to meet MIL-DTL-15370
- Environmental Screening Available

Frequency Range (GHz)	Connectors	Coupling (dB, nom.)	Model Number	Frequency Sensitivity (dB, max.)	Directivity (dB, min.)	Insertion Loss (dB, max.)	Main Line VSWR (x.xx:1, max.)	Coupled Line VSWR (x.xx:1, max.)
<b>2.0 - 40.0</b>	2.92mm jack	10 ± 1.0	DC20-10K-21G	± 1.0	11	1.9	1.60	1.70
		16 ± 1.0	DC20-16K-21G	± 1.0	11	1.6	1.60	1.70
<b>6.0 - 40.0</b> <b>40.0 - 46.0</b>	2.92mm jack	10 ± 1.0	DC8-10K-26G	± 1.0	15	1.8	1.50	1.50
				± 1.5	12	1.8	1.70	1.70
<b>18.0 - 40.0</b> <b>40.0 - 46.0</b>	2.92mm jack	10 ± 1.0	DC3-10K-29G	± 1.0	17	1.8	1.50	1.50
				± 1.5	12	1.8	1.70	1.70

*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  
Coupled "Loss"  
16 dB units: 0.110 dB  
20 dB units: 0.044 dB  
Peak Power: 3 kW, max.  
Input Power (Forward): 25 Watts, max.  
Reflected Power 10/16 dB units: 5 Watts, max.

### Mechanical & Environmental Specifications

Operating Temperature -55 to +85 °C