

Ultra Wide Band Directional Couplers to 46 GHz

- 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 | 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.) |
| 2.0 - 40.0 | 2.92mm jack | DC20-10K-21G | 10 ± 1.0 | ± 1.0 | 11 | 1.9 | 1.60 | 1.70 |
| | | DC20-16K-21G | 16 ± 1.0 | ± 1.0 | 11 | 1.6 | 1.60 | 1.70 |
| 6.0 - 40.0 | 2.92mm jack | DC8-10K-26G | 10 ± 1.0 | ± 1.0 | 15 | 1.8 | 1.50 | 1.50 |
| 40.0 - 46.0 | | | | ± 1.5 | 12 | 1.8 | 1.70 | 1.70 |
| 18.0 - 40.0 | 2.92mm jack | DC3-10K-29G | 10 ± 1.0 | ± 1.0 | 17 | 1.8 | 1.50 | 1.50 |
| 40.0 - 46.0 | | | | ± 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