



**Model DC3401, DC3401A  
Dual Directional Coupler  
10kHz–400MHz**

The Model DC3401/DC3401A is a high power ultra-broadband dual directional couplers with excellent performance characteristics over a range of more than 15 octaves. This dual directional coupler provides a convenient means of simultaneously monitoring forward and reflected power in RF power systems using normal laboratory oscilloscopes, voltmeters, power meters and spectrum analyzers. The Model DC3401/DC340A is particularly recommended for use with our "A" and "L" Series amplifiers, our PM2003 Power Meter and other amplifiers operating within the frequency and power range.

With a frequency range of 10kHz to 400MHz, the Model DC3401/DC3401A is particularly well-suited for Bulk Current Injection (BCI) test applications. The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

**SPECIFICATIONS**

- FREQUENCY RANGE.....10kHz–400MHz
- POWER (maximum) .....500W CW
- COUPLING FACTOR .....50 dB ±0.8dB (includes flatness)
- COUPLING FLATNESS.....±0.6dB
- DIRECTIVITY.....25dB typical  
20dB minimum
- INSERTION LOSS (maximum) .....0.5dB maximum
- IMPEDANCE (main line).....50 ohms, VSWR 1.30 maximum
- CONNECTORS .....See Model Configurations
- WEIGHT (maximum).....0.8 kg (1.8 lb.)
- SIZE (maximum) (W x H x D) .....13.2 x 6.8 x 4.32 cm (5.2 x 2.7 x 1.7 in)
- EXPORT CLASSIFICATION.....EAR99

**MODEL CONFIGURATIONS**

Model	Main Line J1/J2	Coupler Connections J3/J4
DC3401	N female/N female	N female/N female
DC3401A	N male/N female	N female/N female