

**Model DC3001A**  
**Model DC3001, M1, M4**  
**Dual Directional Coupler**  
**100 Watts CW**  
**100kHz-1000MHz**

The Model DC3001A is a high power ultra-broadband dual directional coupler with excellent performance characteristics over a range of more than 14 octaves. This dual directional coupler is 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 DC3001A is particularly recommended for use with our low power "W" Series amplifiers.

**SPECIFICATIONS**

FREQUENCY RANGE .....	100kHz-1000MHz
POWER (maximum).....	100 watts CW 1000 watts Peak
COUPLING FACTOR.....	40 ± 0.8dB (includes flatness)
COUPLING FLATNESS.....	± 0.6dB
DIRECTIVITY.....	25dB typical 20dB minimum
INSERTION LOSS (maximum) .....	0.6dB
IMPEDANCE main line) .....	50 ohms, VSWR 1.3:1 maximum
CONNECTORS.....	See Model Configuration
WEIGHT (maximum) .....	0.39 kg. (0.86 lbs.)
SIZE (maximum) W x H x D) .....	12.7 x 5.1 x 3.8 cm 5.0 x 2.0 x 1.5 in

**MODEL CONFIGURATION**

Model Number	Mainline Connector J1/J2	Coupled Connector J3/J4	Comments
DC3001A	N(M)/N(F)	N(F)/N(F)	
DC3001AM1	N(M)/N(F)	N(F)/N(F)	See DC3001AM1 Spec Sheet for 200W Operation
DC3001M4	N(F)/N(F)	N(F)/N(F)	See DC3001 M4 Spec Sheet for 200W Operation
DC3001	N(F)/N(F)	BNC(F)/BNC(F)	
DC3001M1	N(F)/N(F)	N(F)/N(F)	