



160 School House Road, Souderton, PA 18964-9990 USA
Phone 215-723-8181•FAX 215-723-5688

MODEL DC3001A
MODEL DC3001, M1, M2, M3, M4
DUAL DIRECTIONAL COUPLER
50 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 10W power "W" Series amplifiers.

SPECIFICATIONS
DC3001A

<i>FREQUENCY RANGE</i>	<i>100kHz - 1000MHz</i>
<i>POWER (maximum)</i>	<i>50 watts CW</i>
<i>COUPLING FACTOR</i>	<i>40 ± 0.8dB (includes flatness)</i>
<i>COUPLING FLATNESS</i>	<i>± 0.6dB</i>
<i>DIRECTIVITY</i>	<i>25dB typical</i> <i>20dB minimum</i>
<i>INSERTION LOSS (maximum)</i>	<i>0.6dB</i>
<i>IMPEDANCE main line)</i>	<i>50 ohms, VSWR 1.3:1 maximum</i>
<i>CONNECTORS</i>	<i>See Model Configuration</i>
<i>WEIGHT (maximum)</i>	<i>0.9 kg. (2.0 lbs.)</i>
<i>SIZE (maximum) W x H x D)</i>	<i>12.7 x 5.1 x 3.8 cm</i> <i>5.0 x 2.0 x 1.5 in</i>

Model Configuration

<i>Model Number</i>	<i>Mainline Connector J1/J2</i>	<i>Coupled Connector J3/J4</i>	<i>Comments</i>
<i>DC3001A</i>	<i>N(M)/N(F)</i>	<i>N(F)/N(F)</i>	
<i>DC3001</i>	<i>N(F)/N(F)</i>	<i>BNC(F)/BNC(F)</i>	
<i>DC3001M1</i>	<i>N(F)/N(F)</i>	<i>N(F)/N(F)</i>	
<i>DC3001M2</i>	<i>N(F)/N(F)</i>	<i>BNC(F)/BNC(F)</i>	<i>See DC3001M2 Spec Sheet for 100W Operation</i>
<i>DC3001M3</i>	<i>N(F)/N(F)</i>	<i>N(F)/N(F)</i>	<i>See DC3001M3 Spec Sheet for 100W Operation</i>
<i>DC3001M4</i>	<i>N(F)/N(F)</i>	<i>N(F)/N(F)</i>	

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