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MODEL DC7275A
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M1, M2
DUAL DIRECTIONAL COUPLER
700 WATTS CW
2.5 - 7.5 GHz

The Model DC7275A is a high power dual directional coupler with excellent frequency range and power handling capability. The wide range assures flexibility in coupling high power amplifiers to power meters, spectrum analyzers and other measuring instruments. The dual directional design allows the user to monitor both forward and reflected power, a much needed characteristic in RF susceptibility testing for amplifier overdrive protection, field control and load protection. Low insertion loss allows efficient coupling to the load.

The Model DC7275A is intended for use with the 500T2G8 and other "T" series microwave amplifiers.

SPECIFICATIONS
Model DC7275A

<i>FREQUENCY RANGE</i>	2.5 - 7.5 GHz
<i>POWER (maximum)</i>	700 watts CW 2500 watts peak
<i>COUPLING FACTOR</i>	50 dB \pm 1.3 dB (includes flatness)
<i>COUPLING FLATNESS</i>	\pm 0.6 dB maximum
<i>DIRECTIVITY</i>	
<i>Typical</i>	20 dB
<i>Minimum</i>	15 dB
<i>INSERTION LOSS</i>	0.45 dB maximum
<i>IMPEDANCE (main line)</i>	50 ohms, VSWR 1.5:1 maximum
<i>CONNECTORS</i>	
<i>Main Line</i>	See Model Configuration
<i>Coupled</i>	See Model Configuration
<i>WEIGHT</i>	0.36 kg (0.80 lb.)
<i>SIZE (WxHxD)</i>	2.8 x 5.1 x 14.0 cm 1.1 x 2.0 x 5.5 in

Model Configuration

<i>Model Number</i>	<i>Main Line Connector J1/J2</i>	<i>Coupled Connector J3/J4</i>
<i>DC7275A</i>	<i>7-16(M)/7-16(F)</i>	<i>N(F)/N(F)</i>
<i>DC7275</i>	<i>7-16(F)/7-16(F)</i>	<i>SMA(F)/SMA(F)</i>
<i>DC7275M1</i>	<i>7-16(F)/7-16(F)</i>	<i>N(F)/N(F)</i>
<i>DC7275M2</i>	<i>SC(F)/SC(F)</i>	<i>SMA(F)/SMA(F)</i>