



rf/microwave instrumentation

**Model DC7275A, M1
Model DC7275, M1, M2
Dual Directional Coupler
700 Watts CW
2.5GHz–7.5GHz**

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

- FREQUENCY RANGE.....2.5–7.5 GHz
- POWER (maximum)700 watts CW
15,000 watts peak
- COUPLING FACTOR.....50 dB ± 1.3 dB (includes flatness)
- COUPLING FLATNESS.....± 0.6 dB maximum
- DIRECTIVITY
 - Typical.....20 dB
 - Minimum.....15 dB
- INSERTION LOSS0.45 dB maximum
- IMPEDANCE (main line).....50 ohms, VSWR 1.5:1 maximum
- CONNECTORS
 - Main Line.....See Model Configurations
 - Coupled.....See Model Configurations
- WEIGHT.....0.36 kg (0.80 lb.)
- SIZE (WxHxD).....2.8 x 5.1 x 14.0 cm (1.1 x 2.0 x 5.5 in)

Model Number	Model Configurations		Special Feature
	Main Line Connector J1/J2	Coupled Connector J3/J4	
DC7275A	7-16(M)/7-16(F)	N(F)/N(F)	
DC7275AM1	SC(M)/SC(F)	N(F)/N(F)	
DC7275AM2	7-16(M)/7-16(F)	N(F)/N(F)	2–8 GHz frequency coverage
DC7275	7-16(F)/7-16(F)	SMA(F)/SMA(F)	
DC7275M1	7-16(F)/7-16(F)	N(F)/N(F)	
DC7275M2	SC(F)/SC(F)	SMA(F)/SMA(F)	