



**Model DC7276,  
M1 through M3  
Dual Directional Coupler  
2800 Watts CW  
2.5GHz–7.5GHz**

The Model DC7276 is a high power dual directional waveguide coupler. 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 DC7276 is uniquely suited for use with our “T” series high power amplifiers, other amplifiers operating within this frequency and power range, and our PM2003 power meter.

**SPECIFICATIONS**

FREQUENCY RANGE.....	2.5–7.5 GHz
POWER (maximum) .....	2800 watts CW 20kW peak
COUPLING FACTOR .....	50 dB ± 3.0dB (includes flatness)
COUPLING FLATNESS.....	± 2.5dB maximum
DIRECTIVITY	
Typical .....	28dB
Minimum .....	25dB
INSERTION LOSS .....	0.3 dB maximum
VSWR (main line) .....	1.1:1 maximum
CONNECTORS	
Main Line .....	WRD-250 waveguide flange
Coupled.....	See Model Configuration
WEIGHT .....	1.7 kg (3.8 lb)
SIZE (WxHxD) .....	45.7 x 8.1 x 8.1 cm (18 x 3.2 x 3.2 in)

**Model Configuration**

Model Number	Coupler Connector
DC7276	SMA Female
DC7276M1	N Female
DC7276M2	N Female with pressure sealing option, standard flanges
DC7276M3	N Female with pressure sealing option, grooved flanges