



**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 PM2002 power meter.

**SPECIFICATIONS**

|                        |   |
|------------------------|---|
| FREQUENCY RANGE.....   | 2.5–7.5 GHz                             |
| POWER (maximum) .....  | 2800 watts CW<br>20kW peak              |
| COUPLING FACTOR .....  | 50 dB ± 3.0dB (includes flatness)       |
| COUPLING FLATNESS..... | ± 2.5dB maximum                         |
| DIRECTIVITY            |   |
| Typical.....           | 28dB                                    |
| Minimum .....          | 25dB                                    |
| INSERTION LOSS .....   | 0.25 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  |