



**Model DC7164, M1
Dual Directional Coupler
0.8–4.2GHz**

The Model DC7164 is a dual directional coupler with excellent frequency range and power handling capability. The wide range assures flexibility in coupling medium power amplifiers to oscilloscopes, voltmeters, 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 DC7164 is uniquely suited for use with our "S" series power amplifiers (525S1G4, 700S1G4A, 1000S1G2z5, 1000S1G4), and other amplifiers operating within this frequency and power range, and our PM2003 power meter.

SPECIFICATIONS

- FREQUENCY RANGE.....0.8–4.2GHz
- POWER (Maximum Watts).....See Model Configurations
- COUPLING FACTOR.....See Model Configurations
- FLATNESS± 0.8dB
- DIRECTIVITY
 - Typical.....19 dB
 - Minimum15 dB
- INSERTION LOSS0.4 dB maximum
- IMPEDANCE (Main Line).....50 ohms, VSWR 1.25:1 maximum
- CONNECTORS
 - Main Line.....7/8 EIA
 - CoupledN female
- WEIGHT.....0.91 kg (2 lbs)
- SIZE (WxHxD).....5.71 x 8.25 x 15.25 cm (2.25 x 3.25 x 6.0 in)
- EXPORT CLASSIFICATION.....EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

MODEL CONFIGURATIONS

MODEL	COUPLING FACTOR	POWER (WATTS)
DC7164	60dB ±1 dB	700
DC7164M1	65 Db ±1 dB	1400