



160 School House Road, Souderton, PA 18964-9990 USA
 Phone 215-723-8181 • FAX 215-723-5688

MODEL DC4250, M1
DUAL DIRECTIONAL COUPLER
15,000 WATTS CW
100 kHz - 250 MHz

Amplifier Research Model DC4250 is a high power, ultra-broadband coupler with excellent performance characteristics over a range of 4 decades. This Dual Directional Coupler is a convenient means of simultaneously monitoring forward and reverse power in high power systems using normal laboratory oscilloscopes, voltmeters, power meters and spectrum analyzers. The Model DC4250 is recommended for use with our “A” and “L” series amplifiers, and other amplifiers operating within the frequency and power range, and our PM2002 Power Meter.

SPECIFICATIONS
Model DC4250

FREQUENCY RANGE 100 kHz - 250 MHz

POWER (Maximum) 15 kW CW
 50 kW Peak

COUPLING FACTOR 60 dB \pm 1 dB (includes flatness)

COUPLING FLATNESS \pm 0.9dB

DIRECTIVITY
Typical 25 dB
Minimum 20 dB

INSERTION LOSS 0.1 dB maximum

IMPEDANCE (Main Line) 50 ohms, VSWR 1.2:1 maximum

CONNECTORS
Main Line See Model Configuration
Coupled Type N female

PRIMARY POWER 120/240 VAC, 50/60 Hz

WEIGHT (Maximum) 7.0 kg, (15.5 lb)

SIZE (WxHxD) 16.5 x 15.24 x 35.56 cm.
 6.5 x 6.0 x 14 in..

Model Configuration

<i>Model Number</i>	<i>Mainline Connector</i>
<i>DC4250</i>	<i>Type EIA fixed flanges/1 5/8" male</i>
<i>DC4250M1</i>	<i>Type EIA fixed flanges/3 1/8" male</i>

