



**Model DC4255**  
**Dual Directional Coupler**  
**10,000 Watts CW**  
**10kHz–250MHz**

AR RF/Microwave Instrumentation’s Model DC4255 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 DC4255 is recommended for use with our “A” and “L” series amplifiers, and other amplifiers operating within the frequency and power range, and our PM2003 Power Meter.

**SPECIFICATIONS**

FREQUENCY RANGE.....	10 kHz–250 MHz
POWER (Maximum) .....	10 kW CW
COUPLING FACTOR .....	60 dB
COUPLING FLATNESS.....	±1 dB
DIRECTIVITY	
Typical.....	25 dB
Minimum .....	20 dB
INSERTION LOSS .....	0.1 dB maximum
IMPEDANCE (Main Line) .....	50 ohms, VSWR 1.20:1 maximum
CONNECTORS	
Main Line.....	Type EIA fixed flanges, 1-5/8” male
Coupled .....	Type N female
PRIMARY POWER.....	(2) 120 VAC Fans
WEIGHT (Maximum).....	7.0 kg (15.5 lbs)
SIZE (WxHxD).....	15.2 x 11.4 x 30.48 cm (6.0 x 4.5 x 12 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.