rf/microwave instrumentation

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 1.20:1maximum

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.

160 School House Road Souderton, PA 18964-9990 • 215-723-8181 • www.ar-worldwide.com