



rf/microwave instrumentation

Model DC2500A, M1, M2 Model DC2500, M2 through M6 Dual Directional Coupler, 2500 Watts CW 10kHz–250MHz

AR Model DC2500A is a high power ultra-broadband coupler with excellent performance characteristics over a range of more than 14 octaves. 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. Model DC2500A is recommended for use with our A and L series amplifiers, and other amplifiers operating within the frequency and power range.

SPECIFICATIONS

Frequency Range.....	10 kHz to 250 MHz
Power (Maximum).....	See Model Configuration
Coupling Factor	50 ±1 dB (includes flatness)
Coupling Flatness.....	± 0.9 dB
Directivity	25 dB typical 20 dB minimum (20 kHz – 250 MHz) 18 dB minimum (10 kHz – 20 kHz)
Insertion Loss	0.22 dB maximum
Impedance (Main Line)	50 ohms VSWR 1.2:1 maximum
Mismatch Tolerance.....	6:1 @ 2500 Watts CW
Connectors	See Model Configuration
Weight (Maximum)	1.13 kg (2.5 lb)
Size (W x H x D).....	26.6 cm x 8.1 cm x 7.6 cm (10.1 in x 3.2 in x 3.0 in)

MODEL CONFIGURATION

Model Number	Mainline Connector J1/J2	Coupled Connector J3/J4	Power (Watts) CW/Peak
DC2500A	C(M)/C(F)	N(F)/N(F)	2500/5000
DC2500AM1	N(M)/N(F)	N(F)/N(F)	1000/2000
DC2500AM2	7-16(M)/7-16(F)	N(F)/N(F)	2500/5000
DC2500	C(F)/C(F)	BNC(F)/BNC(F)	2500/5000
DC2500M2	N(F)/N(F)	BNC(F)/BNC(F)	1000/2000
DC2500M3	N(F)/N(F)	N(F)/N(F)	1000/2000
DC2500M4	7-16(F)/7-16(F)	BNC(F)/BNC(F)	2500/5000
DC2500M5	C(F)/C(F)	N(F)/N(F)	2500/5000
DC2500M6	7-16(F)/7-16(F)	N(F)/N(F)	2500/5000