



Model DC2035A, M1, M2
Model DC2035, M1 through M4
Dual Directional Coupler
3500 Watts CW
10kHz–250MHz

AR rf/microwave instrumentation’s Model DC2035A 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.

The Model DC2035A is uniquely suited for use with our “L” and “A” series high power amplifiers, other amplifiers operating within this frequency and power range, and our PM2002 power meter.

SPECIFICATIONS

Frequency Range.....	10kHz to 250MHz
Power (Maximum).....	3500 watts CW 7000 watts Peak
Coupling Factor	50 ±1 dB (includes flatness)
Coupling Flatness.....	± 0.9dB
Directivity.....	25 dB typical 20 dB minimum
Insertion Loss	0.22 dB maximum
Impedance (Main Line)	50 ohms VSWR 1.2:1 maximum
Mismatch Tolerance.....	6:1 @ 3500 watts
Connectors	See Model Configuration
Cooling	Integral AC powered fans. Customer must supply 120 or 240 VAC (DC fan option available).
Weight (Maximum)	1.8 kg (4.0 lb)
Size (W x H x D).....	11.7 cm x 8.9 cm x 25.4 cm (4.6 in x 3.5 in x 10.0 in)

Model Configuration

Model Number	Mainline Connector J1/J2	Coupled Connectors J3/J4
DC2035A	7-16(M)/7-16(F)	N(F)/N(F)
DC2035AM1	C(M)/C(F)	N(F)/N(F)
DC2035AM2	SC(M)/SC(F)	N(F)/N(F)
DC2035	C(F)/C(F)	BNC(F)/BNC(F)
DC2035M1	C(F)/C(F)	N(F)/N(F)
DC2035M2	7-16(F)/7-16(F)	BNC(F)/BNC(F)
DC2035M3	SC(F)/SC(F)	BNC(F)/BNC(F)
DC2035M4	7-16(F)/7-16(F)	N(F)/N(F)