



Model DC6180A, M1
Model DC6180, M1 through M6
Dual Directional Coupler
600 Watts CW
80MHz–1000MHz

The Model DC6180A is a dual directional coupler with excellent frequency range and power handling capability. The wide range assures flexibility in coupling medium power amplifiers to oscilloscopes, voltmeters, power meters, spectrum analyzers and other measuring instruments. The dual directional design allows the user to monitor both forward and reflected power, a much needed characteristic in RF susceptibility testing for amplifier overdrive protection, field control and load protection. Low insertion loss allows efficient coupling to the load while the coupling factor is well matched to the typical laboratory equipment.

The Model DC6180A is recommended for use with our high power W Series Amplifiers.

SPECIFICATIONS

FREQUENCY RANGE	80–1000 MHz
POWER (maximum).....	See Model Configuration
COUPLING FACTOR.....	See Model Configuration
COUPLING FLATNESS.....	± 0.5dB
DIRECTIVITY	
Typical.....	25 dB
Minimum	20 dB
INSERTION LOSS	0.15 dB maximum
IMPEDANCE (Main Line)	50 ohms, VSWR 1.15:1 maximum
CONNECTORS.....	See Model Configuration
WEIGHT	0.6 kg, 1.2 lb
SIZE (WxHxD)	10.9 x 6.3 x 3.2 cm (4.3 x 2.5 x 1.3 in)

MODEL CONFIGURATION

Model Number	Mainline Connector J1/J2	Coupled Connector J3/J4	Power (Watts) CW/Peak	Coupling Factor, including flatness (dB)
DC6180A	N(M)/N(F)	N(F)/N(F)	600/1000	60±1.0
DC6180AM1*	N(M)/N(F)	N(F)/N(F)	600/1000	60±1.0
DC6180	N(F)/N(F)	BNC(F)/BNC(F)	600/1000	60±1.0
DC6180M1	N(F)/N(F)	N(F)/N(F)	600/1000	60±1.0
DC6180M2	N(F)/N(F)	SMA(F)/SMA(F)	600/1000	60±1.0
DC6180M3		See DC6180M3 Specification Sheet		
DC6180M4		See DC6180M4 Specification Sheet		
DC6180M5		See DC6180M5 Specification Sheet		
DC6180M6	N(F)/N(F)	N(F)/N(F)	500/1000	50±1.0

*DC6180AM1 includes A2LA calibration