



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