MODEL DC6380, M1, M2
DUAL DIRECTIONAL COUPLER
3000/4500/7000 WATTS CW
80 - 1000 MHz

The Model DC6380 is a dual directional coupler with excellent frequency range and power handling capability. The wide range assures flexibility in coupling high 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 typical laboratory equipment.

The DC6380 series is ideally suited for use with the AR Worldwide Model 2000W1000A, 3000W1000A, 4000W1000A and other high power amplifiers in this frequency range.

SPECIFICATIONS, DC6380

Frequency Range ..... 80 - 1000 MHz

Power (Maximum) (Infinite VSWR) ..... See Model Configuration
(50 ohms, 1.0:1 VSWR) ..... 7000 watts cw
10,000 watts peak

Coupling Factor ..... See Model Configuration

Coupling Flatness ..... ± 1.0 dB

Directivity ..... 25 dB typical
20 dB minimum

Insertion Loss ..... 0.15 dB maximum

Impedance (Main Line) ..... 50 ohms VSWR 1.5:1 maximum

Connectors
Mainline ..... EIA Flange 1 $^{5}/_{8}$ inch male
Coupled ..... N female

Weight (Maximum) ..... 1.8 kg
4.0 lb

Size (W x H x D) ..... 20.3 x 8.9 x 10.2 cm
8.0 x 3.5 x 4.0 in

Model Configuration

Model Number	Coupling Factor	Power (cw/peak)
DC6380	65 ± 1.5 dB	3000 watts/6000 watts
DC6380M1	68 ± 1.5 dB	4500 watts/9000 watts
DC6380M2	70 ± 1.5 dB	7000 watts/10,000 watts

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