

Model DC7820
Dual Directional Coupler
200 Watts CW
33–50GHz

The Model DC7820 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.

SPECIFICATIONS

FREQUENCY RANGE	33–50 GHz
POWER (maximum).....	200 Watts CW
COUPLING FACTOR.....	40 dB \pm 2.0 dB (includes flatness)
COUPLING FLATNESS.....	\pm 1.0dB
DIRECTIVITY	
Typical.....	32 dB
Minimum	30 dB
INSERTION LOSS	0.15 dB maximum
IMPEDANCE (MAIN LINE)	50 ohms
VSWR	1.10:1 maximum
CONNECTORS	
Main Line.....	WR-22 Waveguide Flange
Coupled	K female
WEIGHT	0.453 kg (1 lb)
SIZE (WxHxD)	3.3 x 3.3 x 15.24 cm (1.3 x 1.3 x 6 in)