

160 School House Road, Souderton, PA 18964-9990 USA Phone 215-723-8181•FAX 215-723-5688 MODEL DC7144 Dual Directional Coupler 400 Watts CW 0.8-4.2GHz

The Model DC7144 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. The Model DC7144 is intended for use with the "S" series microwave amplifiers as well as the 200T1G3, 2000TP1G2 and other microwave TWT amplifiers.

SPECIFICATIONS Model DC7144

FREQUENCY RANGE	0.8 - 4.2GHz		
POWER (Maximum Watts)	400 Watts CW 4K Watts Peak, @ 5% duty cycle, 30 m ec pulse		
COUPLING FACTOR	40 $dB \pm 1.3 dB$ (includes flatness)		
FLATNESS	±0.8dB		
DIRECTIVITY TypicalMinimum			
INSERTION LOSS	0.4 dB maximum		
IMPEDANCE (Main Line)	50 ohms, VSWR 1.25:1 maximum		
CONNECTORS Main Line Coupled	· ·		
WEIGHT	0.24 kg (.525 lbs)		
SIZE (WxHxD)	2.35 x 5.84 x 19.0 cm 0.925 x 2.3 x 7.48 in		

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