

MODEL DC7144A MODEL DC7144 M1 Dual Directional Coupler 400 Watts CW 0.8-4.2GHz

The Model DC7144A 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 DC7144A is uniquely suited for use with our "S" series microwave power amplifiers, other amplifiers operating within this frequency and power range, and our PM2002 power meter.

SPECIFICATIONS Model DC7144A

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 Typical Minimum	
INSERTION LOSS	0.4 dB maximum
IMPEDANCE (Main Line)	50 ohms, VSWR 1.25:1 maximum
CONNECTORS Main Line Coupled.	v 3
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

Model Configuration

Model Number	Main Line	Coupled Connector	
	J1/J2	J3/J4	
DC7144A	N(M)/N(F)	N(F)/N(F)	
DC7144	N(F)/N(F)	SMA(F)/SMA(F)	
DC7144M1	N(F)(NF)	N(F)/N(F)	

REV051702