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MODEL DC7154
Dual Directional Coupler
400 Watts CW
0.8-4.2GHz

The Model DC7154 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 DC7154 is intended for use with the "S" series microwave amplifiers as well as the 200T1G3, 2000TP1G2 and other microwave TWT amplifiers.

SPECIFICATIONS

Model DC7154

FREQUENCY RANGE.....0.8 - 4.2GHz

POWER (Maximum Watts).....400 Watts CW
5K Watts Peak, @ 5% duty cycle,
30 msec pulse

COUPLING FACTOR.....50 dB $\pm$ 1.3 dB (includes flatness)

FLATNESS..... $\pm$ 0.8dB

DIRECTIVITY
Typical.....19 dB
Minimum.....15 dB

INSERTION LOSS0.4 dB maximum

IMPEDANCE (Main Line)50 ohms, VSWR 1.25:1 maximum

CONNECTORS
Main Line.....N female
Coupled.....SMA female

WEIGHT0.24 kg (.53 lbs)

SIZE (WxHxD)2.35 x 5.84 x 19.0 cm
0.925 x 2.3 x 7.48 in

REV080598

