



**DC7441A, M1
DC7441, M1
Dual Directional Coupler
3GHz–12GHz**

The Models DC7441A & DC7441 are dual directional couplers 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 DC7441A/DC7441 series is uniquely suited for use with our 4-10.6 GHz S-Series power amplifiers or other amplifiers operating within this frequency and power range.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

SPECIFICATIONS

- FREQUENCY RANGE.....3–12GHz
- POWER (Maximum Watts).....500W CW, 10kW peak
- COUPLING FACTOR.....40 dB ± 1.2 dB (includes flatness)
- FLATNESS± 1.0dB
- DIRECTIVITY (Minimum).....16 dB
- INSERTION LOSS0.25 dB maximum
- IMPEDANCE (Main Line).....50 ohms, VSWR 1.30:1 maximum
- CONNECTORS
 - Main Line.....See Model Configuration
 - CoupledSee Model Configuration
- WEIGHT.....0.23 kg (0.5 lb)
- SIZE (WxHxD).....2.54 x 2.54 x 8.36 cm (1 x 1 x 3.29 in)
- EXPORT CLASSIFICATION.....EAR99

Model Configurations

Model Number	Main Line J1/J2	Coupler Connectors J3/J4
DC7441A	N(M)/N(F)	N(F)/N(F)
DC7441AM1	N(M)/N(F)	SMA(F)/SMA(F)
DC7441	N(F)/N(F)	N(F)/N(F)
DC7441M1	N(F)/N(F)	SMA(F)/SMA(F)