



DC3100, DC3100A Dual Directional Coupler

- 500 Watts CW
- 10kHz–1000MHz

Features

The Model DC3100 and DC3100A series are dual directional couplers with excellent frequency range and power handling capability. The wide range assures flexibility in coupling high 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 DC3100 and DC3100A series is uniquely suited for use with our 250U1000 power amplifier, other amplifiers operating within this frequency and power range, and our PM2003 power meter.

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: 10 kHz–1000 MHz

POWER (Maximum Watts): 500 CW

COUPLING FACTOR: 40 dB \pm 1.5 dB (includes flatness)

COUPLING FLATNESS: \pm 0.5 dB

DIRECTIVITY: Typical, 25 dB; Minimum, 20 dB

INSERTION LOSS: 0.45 dB maximum

VSWR (Main Line): 50 ohms, 1.30:1 maximum

CONNECTORS: See Model Configurations

WEIGHT: 1.1 kg (2.5 lbs)

SIZE (W x H x D): 17 x 5.8 x 4.3 cm (6.7 x 2.27 x 1.69 in)

EXPORT CLASSIFICATION: EAR99

Model Configurations

Model Number	Main Line J1/J2	Coupler Connectors J3/J4
DC3100A	N(M)/N(F)	N(F)/N(F)
DC3100	N(F)/N(F)	N(F)/N(F)

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