



## DC7445 Dual Directional Coupler

- 3000 Watts
- 6GHz–18GHz

### Features

The Model DC7445 is a dual directional coupler with excellent frequency range and power handling capability. The wide range assures flexibility in coupling power amplifiers to receivers, network analyzers, 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 DC7445 is intended for use with 250T6G18 and other T Series microwave TWT amplifiers.

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:** 6 GHz–18 GHz

**POWER (Maximum):** 3 kW CW, 16 kW peak

**COUPLING FACTOR:** 48 dB  $\pm$  4 dB (includes flatness)

**COUPLING FLATNESS:**  $\pm$ 3 dB

**DIRECTIVITY:** Typical, 30 dB; Minimum, 20 dB

**INSERTION LOSS:** 0.3 dB maximum

**VSWR (Main Line):** 1.3:1 maximum

**CONNECTORS:**

Main Line, WRD-650  
Coupled, Type N female

**WEIGHT:** 0.64 kg (1.4 lbs)

**SIZE (WxH):** 2.9 x 3.5 x 30.5 cm (1.13 x 1.4 x 12 in)

**EXPORT CLASSIFICATION:** EAR99

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