



DC7530

- M1 through M3
- 300 Watts CW
- 18GHz–26.5GHz

Features

The Model DC7530 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 DC7530 is intended for use with the 40T18G26 and other "T" series microwave TWT amplifiers, operating within the 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:** 18 GHz–26.5 GHz
- POWER (Maximum Watts):** 300 Watts CW; 80kW peak
- COUPLING FACTOR:** (See Model Configurations)
- COUPLING FLATNESS:** ± 1.0 dB
- DIRECTIVITY:** Typical, 40 dB; Minimum, 30 dB
- INSERTION LOSS:** 0.2 dB maximum
- VSWR (Main Line):** 1.10:1 maximum
- CONNECTORS:**
Mainline WR42 Waveguide
Coupled See Model Configurations
- WEIGHT:** 204 g (7.2 oz)
- SIZE (W x H x D):** 2.2 x 3.5 x 22.9 cm (0.88 x 1.4 x 9.0 in)
- EXPORT CLASSIFICATION:** EAR99

Model Configurations		
Model Number	Coupling Factor	Coupled Connector
DC7530	40dB ± 2.0dB	K (female)
DC7530M1	40dB ± 2.0dB	2.4 mm (female)
DC7530M2	30dB ± 2.0dB	K (female)
DC7530M3	50dB ± 2.0dB	K (female)

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