



**Model DC7620,
M1, M2
Dual Directional Coupler
200 Watts CW
26.5GHz–40GHz**

The Model DC7620 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 DC7620 is intended for use with the 40T26G40A and other T-series microwave TWT amplifiers within the frequency and power range.

SPECIFICATIONS

FREQUENCY RANGE.....	26.5-40GHz
POWER (maximum)	200 Watts CW (300 watts into 50Ω) 30K Watts Peak
COUPLING FACTOR.....	See Model Configurations
COUPLING FLATNESS.....	± 1.0dB
DIRECTIVITY	
Typical.....	28 dB
Minimum	23 dB
INSERTION LOSS	0.26 dB maximum
VSWR (Main Line).....	VSWR 1.15:1 maximum
CONNECTORS	
Main Line.....	EIA WR28
Coupled	K female
WEIGHT.....	113 g (4 oz.)
SIZE (WxHxD).....	3.5 x 1.9 x 14 cm (1.4 x 0.75 x 5.50 in)

MODEL CONFIGURATIONS

Models	Main Line	Coupled Port	Coupling Factor
DC7620	WR28	K (female)	40dB (flatness ±2dB)
DC7620M1		See individual specification sheet	
DC7620M2	WR28	K (female)	50dB (flatness ±2dB)