

**Model DC7462**  
**Dual Directional Coupler**  
**1400 Watts CW**  
**12GHz–18GHz**

The Model DC7462 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 DC7462 is intended for use with the 4000TP12G18 and other T series microwave TWT amplifiers.

**SPECIFICATIONS**

FREQUENCY RANGE .....	12–18 GHz
POWER (maximum).....	1400 Watts CW 6.5K Watts Peak, @ 4% duty cycle, 100 $\mu$ sec pulse
COUPLING FACTOR.....	40 dB $\pm$ 2.0 dB (includes flatness)
COUPLING FLATNESS.....	$\pm$ 1.5 dB
DIRECTIVITY	
Typical.....	30 dB
Minimum .....	25 dB
INSERTION LOSS .....	0.15 dB maximum
VSWR (Main Line) .....	1.1:1 maximum
CONNECTORS	
Main Line.....	WR62
Coupled .....	N(F)
WEIGHT .....	0.17 kg (0.38 lbs)
SIZE (WxHxD) .....	1.8 x 7.6 x 28 cm (0.7 x 3.0 x 11 in)