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MODEL DC7530
DUAL DIRECTIONAL COUPLER
300 WATTS CW
18 - 26.5 GHz

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 25T18G26, 40T18G26 and other "T" series microwave TWT amplifiers.

SPECIFICATIONS
Model DC7530

<i>FREQUENCY RANGE</i>	<i>18-26.5GHz</i>
<i>POWER (maximum)</i>	<i>300 Watts CW</i> <i>80K Watts Peak</i>
<i>COUPLING FACTOR</i>	<i>40 dB \pm 2.0 dB (includes flatness)</i>
<i>COUPLING LFATENSS</i>	<i>\pm 1.0dB</i>
<i>DIRECTIVITY</i>	
<i>Typical</i>	<i>28 dB</i>
<i>Minimum</i>	<i>23 dB</i>
<i>INSERTION LOSS</i>	<i>0.20 dB maximum</i>
<i>VSWR (Main Line)</i>	<i>VSWR 1.10:1 maximum</i>
<i>CONNECTORS</i>	
<i>Main Line</i>	<i>EIA WR42</i>
<i>Coupled</i>	<i>K female</i>
<i>WEIGHT</i>	<i>113 g (4 oz.)</i>
<i>SIZE (WxHxD)</i>	<i>3.8 x 2.2 x 17 cm</i> <i>1.5 x 0.88 x 6.70 in</i>

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