



160 School House Road, Souderton, PA 18964-9990 USA
Phone 215-723-8181•FAX 215-723-5688

MODEL DC7280A
MODEL DC7280, M1
DUAL DIRECTIONAL COUPLER
350 WATTS CW
2 - 8 GHz

The Model DC7280A 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 Model DC7280A is intended for use with the 200T2G8, 2000TP2G8 and other microwave TWT amplifier operating within the frequency and power range.

SPECIFICATIONS
Model DC7280A

FREQUENCY RANGE 2 - 8GHz
POWER (maximum) 350 Watts CW
5K Watts Peak, @ 5% duty cycle
30 msec pulse
COUPLING FACTOR 50 dB \pm 1.3 dB (includes flatness)
COUPLING FLATNESS \pm 0.75dB
DIRECTIVITY
Typical..... 20 dB
Minimum..... 16 dB
INSERTION LOSS 0.4 dB maximum
IMPEDANCE (Main Line)..... 50 ohms, VSWR 1.35:1 maximum
CONNECTORS..... See Model Configuration
WEIGHT..... 0.22 kg (.48 lbs)
SIZE (WxHxD)..... 2.3 x 4.8 x 11.4 cm
0.9 x 1.9 x 4.5 in

Model Configuration

| <i>Model Number</i> | <i>Mainline Connector J1/J2</i> | <i>Coupled Connector J3/J4</i> |
|---------------------|-------------------------------------|------------------------------------|
| <i>DC7280A</i> | <i>N(M)/N(F)</i> | <i>N(F)/N(F)</i> |
| <i>DC 7280</i> | <i>N(F)/N(F)</i> | <i>SMA(F)/SMA(F)</i> |
| <i>DC7280M1</i> | <i>N(F)/N(F)</i> | <i>N(F)/N(F)</i> |

