



**Model DC7128A, M1, M2, M3**  
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**Dual Directional Coupler**  
**1500 Watts CW**  
**0.8–2.8GHz**

The Model DC7128A is a high power dual directional coupler with excellent frequency range and power handling capability. The wide range assures flexibility in coupling high power amplifiers to 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 DC7128A is intended for use with the 500T1G2 and 1000T1G2 and other "T" series microwave TWT amplifiers and other amplifiers operating within the frequency and power range.

**SPECIFICATIONS**

FREQUENCY RANGE .....	0.8–2.8 GHz
POWER (maximum).....	1500 watts CW 10,000 watts peak
COUPLING FACTOR.....	50 dB ± 1.0 dB (includes flatness)
COUPLING FLATNESS.....	± 0.8 dB
DIRECTIVITY	
Typical.....	25 dB
Minimum .....	20 dB
INSERTION LOSS .....	0.2 dB maximum
IMPEDANCE (Main Line) .....	50 ohms, VSWR 1.3:1 maximum
CONNECTORS.....	See Model Configuration
WEIGHT .....	0.7 kg (1.5 lb)
SIZE (W x H x D) .....	7.6 x 7.6 x 2.9 cm (3.0 x 3.0 x 1.125 in)

Model Number	Model Configuration		Comments
	Main Line Connector J1/J2	Coupled Connector J3/J4	
DC7128A	7-16(M)/7-16(F)	N(F)/N(F)	
DC7128AM1	SC(M)/SC(F)	N(F)/N(F)	
DC7128AM2	1-5/8 EIA (M)-1-5/8 EIA (F)	N(F)/N(F)	See separate specification sheet for 2500 watt operation
DC7128AM3	1-5/8 EIA (M)-1-5/8 EIA (M)		See separate specification sheet for 2500 watt operation
DC7128AM4	7/8 EIA (M)/7/8 EIA (F)	N(F)/N(F)	See separate specification sheet
DC7128AM5	7/8 EIA (M)/7/8 EIA (M)	N(F)/N(F)	See separate specification sheet
DC7128	7-16(F)/7-16(F)	N(F)/N(F)	
DC7128M1	SC(F)/SC(F)	N(F)/N(F)	
DC7128M2	SC(F)/SC(F)	SMA(F)/SMA(F)	
DC7128M3	7-16(M)/7-16(M)	SMA(F)/SMA(F)	See separate specification sheet