

DC7128A DC7128 Dual Directional Coupler

- 1500 Watts CW
- 0.8–2.8 GHz

Features

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 amplifiers operating within the frequency and power range.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Specifications

FREQUENCY RANGE: 0.8–2.8 GHz

POWER (maximum): 1500 watts CW

COUPLING FACTOR: 50 dB \pm 1.0 dB (includes flatness)

COUPLING FLATNESS: \pm 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 Configurations on reverse

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

EXPORT CLASSIFICATION: EAR99

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 Dual Directional
 Coupler

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Model Configurations

Model Number	Main Line Connector J1/J2	Coupled Connector J3/J4	Comments
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 3600 watt operation
DC7128AM3	1-5/8 EIA (M)-1-5/8 EIA (M)	N(F)/N(F)	See separate specification sheet for 3600 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
DC7128AM6	1-5/8 EIA (M)-1-5/8 EIA (F)	N(F)/N(F)	See separate specification sheet for 3600 watt operation
DC7128AM7	1-5/8 EIA (M)-1-5/8 EIA (F)	N(F)/N(F)	See separate specification sheet for 3600 watt operation
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