

FM2CP1120-30 DATA SHEET

SMA Directional Coupler 30 dB 6 GHz to 26.5 GHz Rated to 30 Watts

The FM2CP1120-30 is an 30 dB RF coupler with 50 ohm SMA connectors operating from 6 GHz to 26.5 GHz with a maximum input power of 30 Watts CW, and peak power handling of 300 watt. The FM2CP1120-30 has a coupling factor of 30 dB, insertion loss of 1 dB maximun and a maximum VSWR of 1.5:1. The coupler operates over a temperature range of -45 to 85° C and meets environmental standard for humidity, shock, vibration, and altitude. Couplers have many Applications and perform several functions within the RF/Microwave industry such as circuit feedback and signal sampling for measurement or monitoring.



Description	Min	Тур	Max	Units
Frequency Range	6		26.5	GHz
Impedance		50		Ohms
Coupling		30		dB
Freq. Sensitivity			±1	dB
Insertion Loss			1	dB
Directivity	13			dB
Main Line VSWR			1.5:1	
Sec. Line VSWR			1.5:1	
Input Power (CW)			30	Watts
Input Power (Peak)			300	Watts



Features:

- 6 GHz to 26.5 GHz
- 30 Watts CW Max Power
- 30 dB Coupling Value
- Directional SMA Coupler
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications:

- Communications Systems
- GSM, LTE, 5G
- Amplifier Systems
- Point-to-Point Radio
- · Automotive Radar
- Defense Applications
- Wireless Telecommunications

Mechanical Specifications

Weight 0.78 lbs [353.8 g]

Housing Material and Plating Aluminum

Configuration

Package Type Connectorized
Input Connector SMA Female
Output Connector SMA Female
Coupled Connectors SMA Female

Environmental Specifications

Temperature

Operating Range -45 to +85 deg C Storage Range -55 to +125 deg C

Humidity 100% RH at 35°C, 95% RH at 40°C Shock 20G for 11msec half sine wave, 3 axis

both directions

Vibration 25g RMS (15 degrees 2KHz) endurance,

1 hour per axis

Altitude 30,000 ft. (Epoxy Sealed Controlled en-

vironment)

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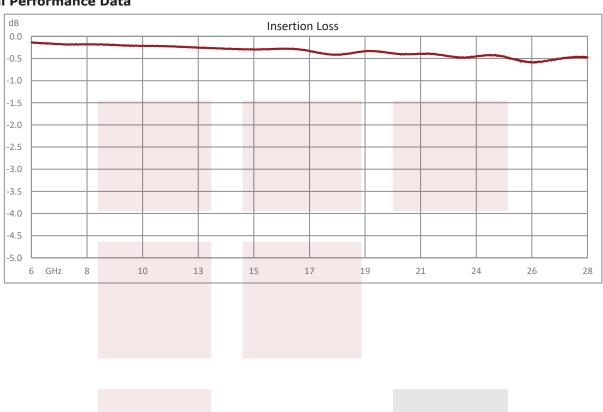


Compliance Certifications (see product page for current document)

Plotted and Other Data

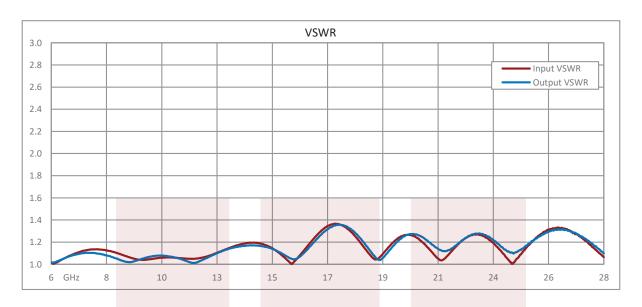
Notes:

Typical Performance Data









SMA Directional Coupler 30 dB 6 GHz to 26.5 GHz Rated to 30 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA Directional Coupler 30 dB 6 GHz to 26.5 GHz Rated to 30 Watts FM2CP1120-30

URL: https://www.fairviewmicrowave.com/sma-directional-standard-30-db-26.5-ghz-fm2cp1120-30-p.aspx

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