

FM2CP1126-20 DATA SHEET

2.92mm Directional Coupler 20 dB 18 GHz to 40 GHz Rated to 30 Watts

The FM2CP1126-20 is an 20 dB RF coupler with 50 ohm 2.92mm connectors operating from 18 GHz to 40 GHz with a maximum input power of 30 Watts CW, and peak power handling of 300 watt. The FM2CP1126-20 has a coupling factor of 20 dB, insertion loss of 1 dB maximun and a maximum VSWR of 1.6:1. 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	18		40	GHz
Impedance		50		Ohms
Coupling	19	20	21	dB
Freq. Sensitivity		±0.7	±1	dB
Insertion Loss		0.8	1	dB
Directivity	12	14		dB
Main Line VSWR		1.5:1	1.6:1	
Sec. Line VSWR		1.5:1	1.6:1	
Input Power (CW)			30	Watts
Input Power (Peak)			300	Watts



Features:

- 18 GHz to 40 GHz
- 30 Watts CW Max Power
- 20 dB Coupling Value
- Directional 2.92mm 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 0.143 lbs [64.86 g]

Housing Material and Plating Aluminum

Configuration

Package Type Connectorized
Input Connector 2.92mm Female
Output Connector 2.92mm Female
Coupled Connectors 2.92mm 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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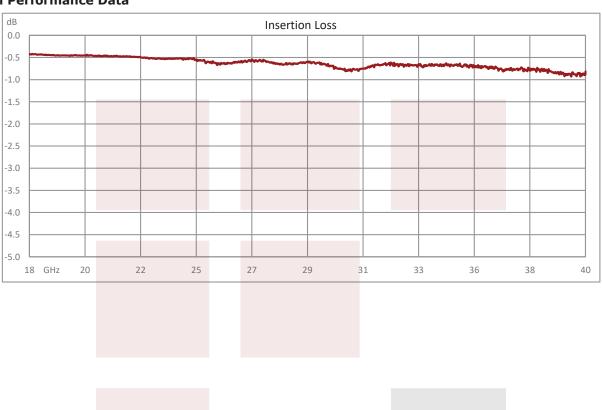


Compliance Certifications (see product page for current document)

Plotted and Other Data

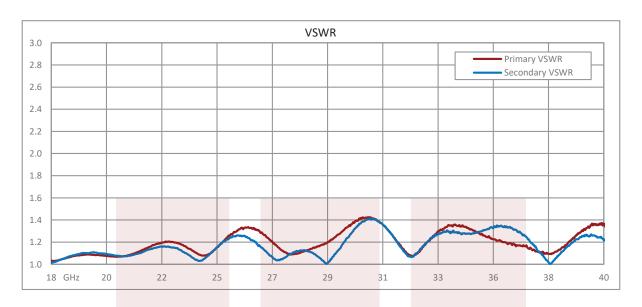
Notes:

Typical Performance Data









2.92mm Directional Coupler 20 dB 18 GHz to 40 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: 2.92mm Directional Coupler 20 dB 18 GHz to 40 GHz Rated to 30 Watts FM2CP1126-20

URL: https://www.fairviewmicrowave.com/2.92mm-directional-standard-20-db-40-ghz-fm2cp1126-20-p.aspx

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