

FM2CP1126-6 DATA SHEET

2.92mm Directional Coupler 6 dB 18 GHz to 40 GHz Rated to 30 Watts

The FM2CP1126-6 is an 6 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 500 watt. The FM2CP1126-6 has a coupling factor of 6 dB, insertion loss of 2.6 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	5	6	7	dB
Freq. Sensitivity			±0.7	dB
Insertion Loss		2.4	2.6	dB
Directivity	10			dB
Main Line VSWR			1.6:1	
Sec. Line VSWR			1.6:1	
Input Power (CW)			30	Watts
Input Power (Peak)			500	Watts



Features:

- 18 GHz to 40 GHz
- 30 Watts CW Max Power
- 6 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

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)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

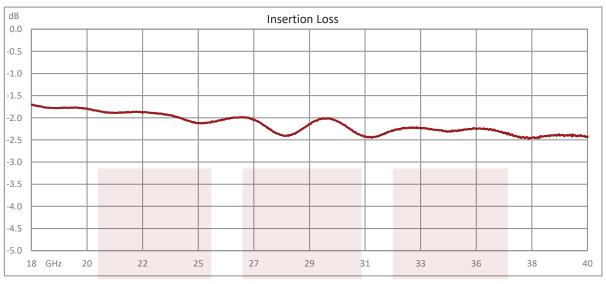
Tel: 1-800-715-4396 / (972) 649-6678

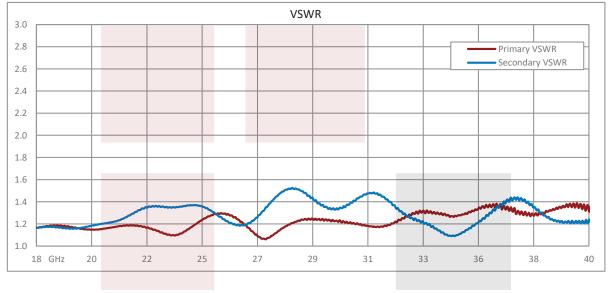
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Typical Performance Data





2.92mm Directional Coupler 6 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 6 dB 18 GHz to 40 GHz Rated to 30 Watts FM2CP1126-6

URL: https://www.fairviewmicrowave.com/2.92mm-directional-standard-6-db-40-ghz-fm2cp1126-6-p.aspx

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