

FM2CP1122-20 DATA SHEET

2.92mm Directional Coupler 20 dB 1 GHz to 40 GHz Rated to 30 Watts

The FM2CP1122-20 is an 20 dB RF coupler with 50 ohm 2.92mm connectors operating from 1 GHz to 40 GHz with a maximum input power of 30 Watts CW, and peak power handling of 500 watt. The FM2CP1122-20 has a coupling factor of 20 dB, insertion loss of 2.2 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	1		40	GHz
Impedance		50		Ohms
Coupling	19	20	21.5	dB
Freq. Sensitivity		±0.7	±1	dB
Insertion Loss		2	2.2	dB
Main Line VSWR		1.4:1	1.6:1	
Sec. Line VSWR		1.4:1	1.6:1	
Input Power (CW)			30	Watts
Input Power (Peak)			500	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	1 to 18	18 to 40				GHz
Insertion Loss, Typ	1.2	2				dB
Main Line VSWR, Typ	1.3:1	1.4:1				
Main Line VSWR, Max	1.5:1	1.6:1				
Sec. Line VSWR, Typ	1.3:1	1.4:1				
Sec. Line VSWR, Max	1.5:1	1.6:1				
Directivity, Min	12	10				dB
Directivity, Typ	14	12				dB
Coupling, Typ	20	20				dB
Freq. Sensitivity, Typ	±0.7	±0.7				dB

Mechanical Specifications

Weight 0.0116 lbs [5.26 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



Features:

- 1 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

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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

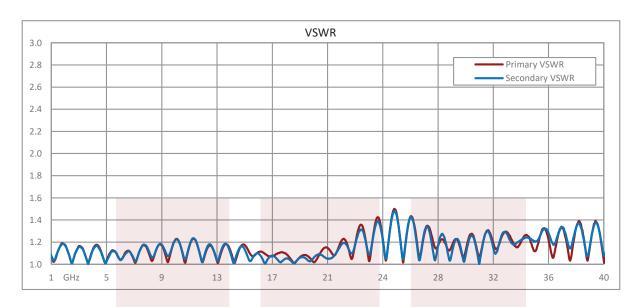
Shock 20G for 11msec half sine wave, 3 axis both directions
Vibration 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Altitude 30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)









2.92mm Directional Coupler 20 dB 1 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 2.92mm Directional Coupler 20 dB 1 GHz to 40 GHz Rated to 30 Watts FM2CP1122-20

URL: https://www.fairviewmicrowave.com/2.92mm-directional-standard-20-db-40-ghz-fm2cp1122-20-p.aspx

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