

DATA SHEET

SMA Directional Coupler 20 dB 6 GHz to 26.6 GHz Rated to 30 Watts

The FM2CP1120-20 is an 20 dB RF coupler with 50 ohm SMA connectors operating from 6 GHz to 26.6 GHz with a maximum input power of 30 Watts CW, and peak power handling of 300 watt. The FM2CP1120-20 has a coupling factor of 20 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.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	6		26.6	GHz
Impedance		50		Ohms
Coupling		20		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

FM2CP1120-20

Features:

- 6 GHz to 26.6 GHz
- 30 Watts CW Max Power
- 20 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	0.98	lbs [444.52 g]	
Housing Material and Pl	ating Alum	inum	
Configuration Package Type Input Connector Output Connector Coupled Connectors	SMA SMA	ectorized Female Female Female	
Environmental Specific Temperature Operating Range Storage Range	-45 t	o +85 deg C o +125 deg C	
Humidity Shock	20G 1	6 RH at 35°C, 95% RH at 40°C for 11msec half sine wave, 3 ax directions	is
Vibration	25g F	RMS (15 degrees 2KHz) endural ur per axis	nce,
Altitude	30,00	00 ft. (Epoxy Sealed Controlled ment)	en-

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

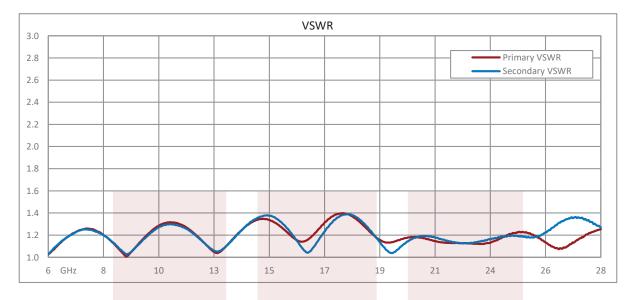
dB Insertion Loss 0.0 -0.5 -1.0 -1.5 -2.0 -2.5 -3.0 -3.5 -4.0 -4.5 -5.0 6 GHz 10 13 15 17 19 8 21 24 26 28



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SMA Directional Coupler 20 dB 6 GHz to 26.6 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 20 dB 6 GHz to 26.6 GHz Rated to 30 Watts FM2CP1120-20

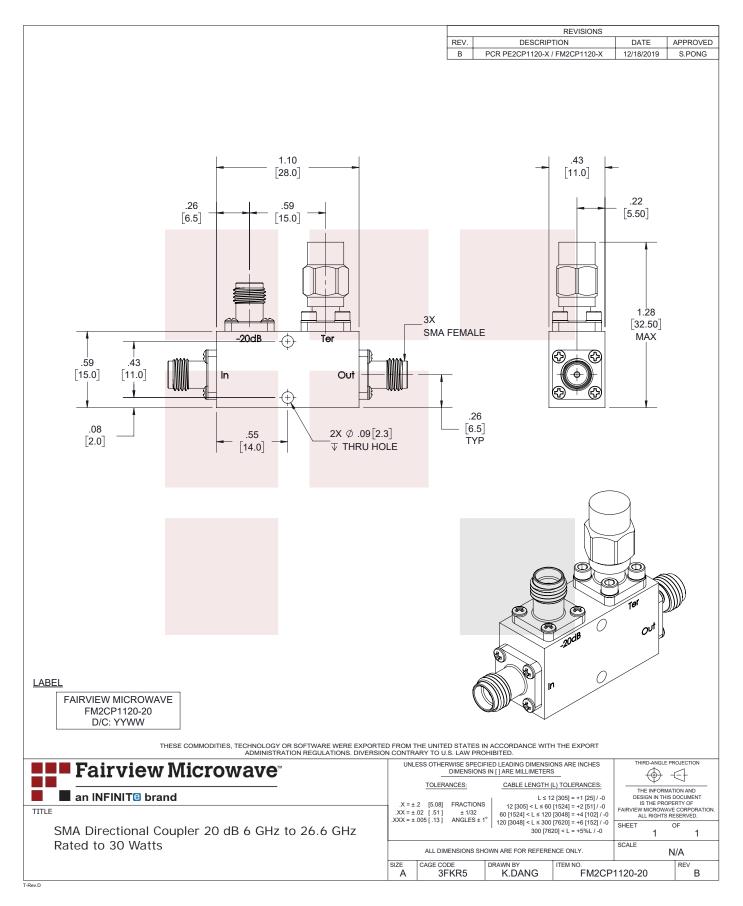
URL: https://www.fairviewmicrowave.com/sma-directional-standard-20-db-26.6-ghz-fm2cp1120-20-p.aspx

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