



SMA 180 Degree Hybrid Coupler from 1 GHz to 2 GHz Rated to 50 Watts

The FMCP1152 is a high power 180 degree hybrid coupler that operates from 1 to 2 GHz and can handle 50 Watts (CW) with 22 dB isolation minimum and 1.35:1 VSWR maximum. The package interface uses SMA Female connectors.

The FMCP1152 is part of Fairview Microwave's family of 180 degree hybrid couplers that offer excellent performance featuring high isolation, low insertion loss and VSWR while maintaining great amplitude/phase balance over the entire operating frequency range. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, phased array radar, and any application that requires even power distribution with a 180 degree difference in phase.



Description	Min	Тур	Max	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Phase Difference		180		Degrees
Coupling		3		dB
Insertion Loss		0.3	0.5	dB
Isolation	22	23		dB
VSWR		1.25:1	1.35:1	
Amplitude Balance		±0.3	±0.5	dB
Phase Balance		±8	±10	Degrees
Input Power (CW)			50	Watts
Input Power (Peak)			1	kWatts



Features:

- 180° Phase Shift Between **Output Ports**
- High power handling of 50 Watts CW
- 1 to 2 GHz Frequency Range
- VSWR 1.25:1 Typical
- High Isolation of 22 dB Minimum
- Low 0.3 dB Insertion Loss Typical
- SMA Female Connectors
- Stable performance over Operating Temperature Range

Applications:

- Test and Measurement
- Commercial Communications
- SATCOM
- Military Communications
- · Wireless Communications

Mechanical Specifications

Size

2.99 in [75.95 mm] Length Width 2.36 in [59.94 mm] Height 0.26 in [6.6 mm] Weight 0.25 lbs [113.4 g]

Configuration

RF Connector Type SMA Female

Environmental Specifications Temperature

Operating Range

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

Humidity

Vibration

Altitude

at 40°c 20G for 11msec half sine

Shock wave, 3 axis both directions

> 25gRMS (15 degrees 2KHz) endurance, 1 hour

> > per axis

100% RH at 35°c, 95% RH

30,000 ft.

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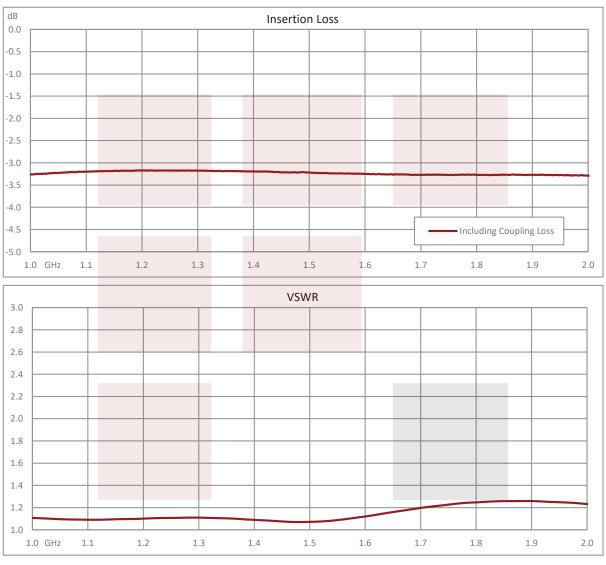


Compliance Certifications (see product page for current document)

Plotted and Other Data

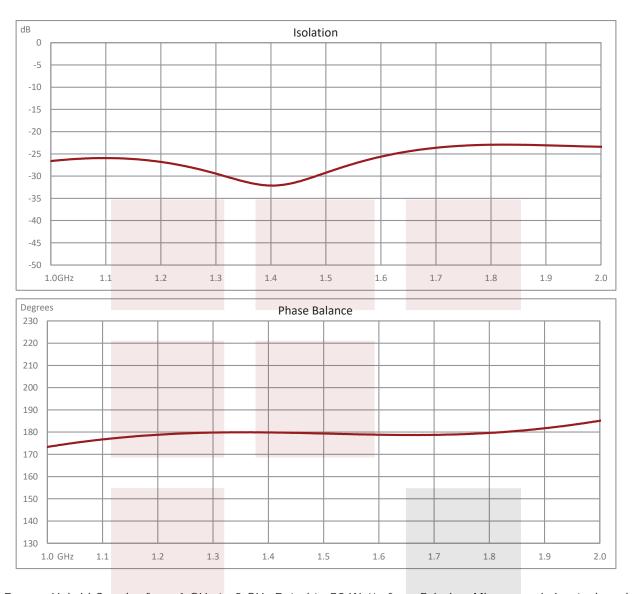
Notes:

Typical Performance Data









SMA 180 Degree Hybrid Coupler from 1 GHz to 2 GHz Rated to 50 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 180 Degree Hybrid Coupler from 1 GHz to 2 GHz Rated to 50 Watts FMCP1152

URL: https://www.fairviewmicrowave.com/sma-180-degree-hybrid-coupler-1-2-ghz-50-watts-fmcp1152-p.aspx

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