



SMA 180 Degree Hybrid Coupler from 1.3 GHz to 2.6 GHz Rated to 100 Watts

The FMCP1153 is a high power 180 degree hybrid coupler that operates from 1.3 to 2.6 GHz and can handle 100 Watts (CW) with 20 dB isolation minimum and 1.35:1 VSWR maximum. The package interface uses SMA Female connectors.

The FMCP1153 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.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	1.3		2.6	GHz
Impedance		50		Ohms
Phase Difference		180		Degrees
Coupling		3		dB
Insertion Loss		0.3	0.5	dB
Isolation	20	22		dB
VSWR		1.25:1	1.35:1	
Amplitude Balance		±0.3	±0.5	dB
Phase Balance		8	10	Degrees
Input Power (CW)			100	Watts
Input Power (Peak)			2	kWatts



Features:

- 180° Phase Shift Between **Output Ports**
- High power handling of 100 Watts CW
- 1.3 to 2.6 GHz Frequency Range
- VSWR 1.25:1 Typical
- High Isolation of 20 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

2.68 in [68.07 mm] Length Width 2.36 in [59.94 mm] 0.51 in [12.95 mm] Height 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

100% RH at 35°c, 95% RH at 40°c

Shock 20G for 11msec half sine wave, 3 axis both directions

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

per axis

Altitude 30,000 ft. Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

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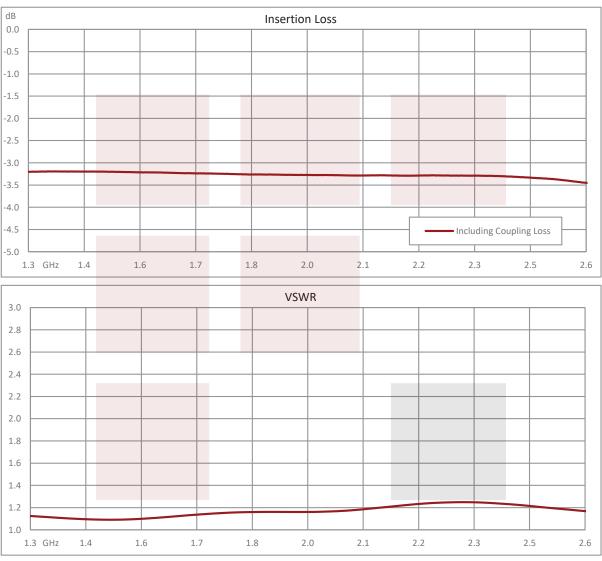


Compliance Certifications (see product page for current document)

Plotted and Other Data

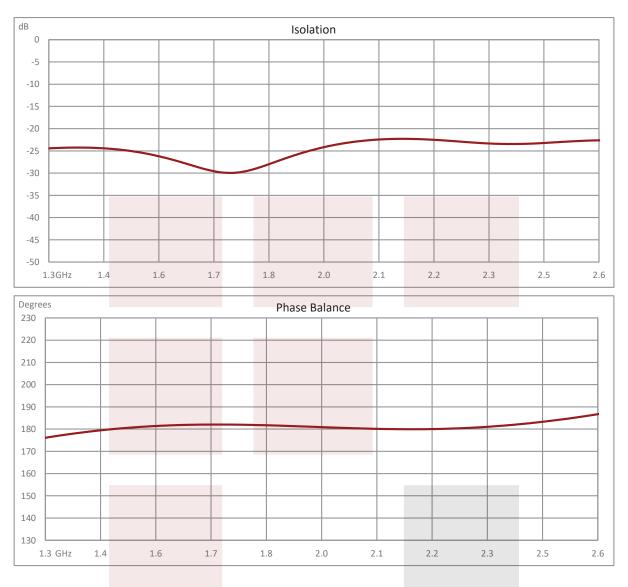
Notes:

Typical Performance Data









SMA 180 Degree Hybrid Coupler from 1.3 GHz to 2.6 GHz Rated to 100 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 1.3 GHz to 2.6 GHz Rated to 100 Watts FMCP1153

URL: https://www.fairviewmicrowave.com/sma-180-degree-hybrid-coupler-1.3-2.6-ghz-100-watts-fmcp1153-p.aspx

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