



2.92mm 180 Degree Hybrid Coupler from 26.5 GHz to 40 GHz Rated to 20 Watts

The FMCP1161 is a high power 180 degree hybrid coupler that operates from 26.5 to 40 GHz and can handle 20 Watts (CW) with 15 dB isolation minimum and 1.6:1 VSWR maximum. The package interface uses 2.92mm Female connectors.

The FMCP1161 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	26.5		40	GHz
Impedance		50		Ohms
Phase Difference		180		Degrees
Coupling		3		dB
Insertion Loss		1.8	2.5	dB
Isolation	15	18		dB
VSWR		1.5:1	1.6:1	
Amplitude Balance		±0.7	±1	dB
Phase Balance		8	12	Degrees
Input Power (CW)			20	Watts
Input Power (Peak)			300	Watts



Features:

- 180° Phase Shift Between **Output Ports**
- High power handling of 20 Watts CW
- 26.5 to 40 GHz Frequency Range
- VSWR 1.5:1 Typical
- High Isolation of 15 dB Minimum
- Low 1.8 dB Insertion Loss Typical
- 2.92mm Female Connectors
- Stable performance over Operating Temperature Range

Applications:

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

Mechanical Specifications

Size

Length 1.17 in [29.72 mm] Width 0.95 in [24.13 mm] Height 0.43 in [10.92 mm] Weight 0.25 lbs [113.4 g]

Configuration

RF Connector Type 2.92mm Female

Environmental Specifications Temperature

Operating Range Storage Range

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

100% RH at 35°c, 95% RH Humidity at 40°c

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

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

per axis 30,000 ft.

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Vibration



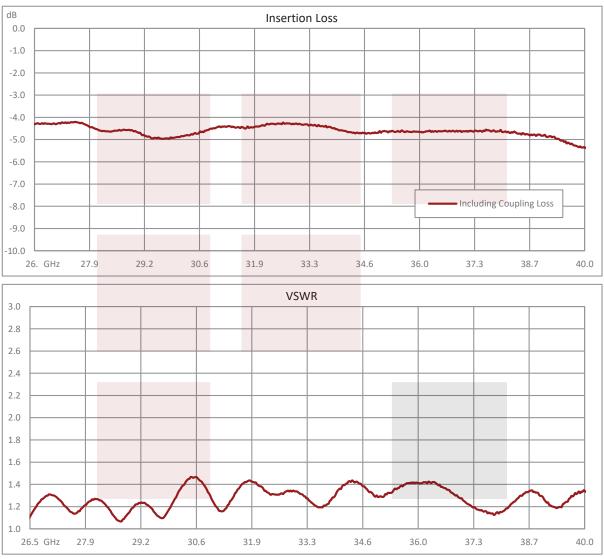


Compliance Certifications (see product page for current document)

Plotted and Other Data

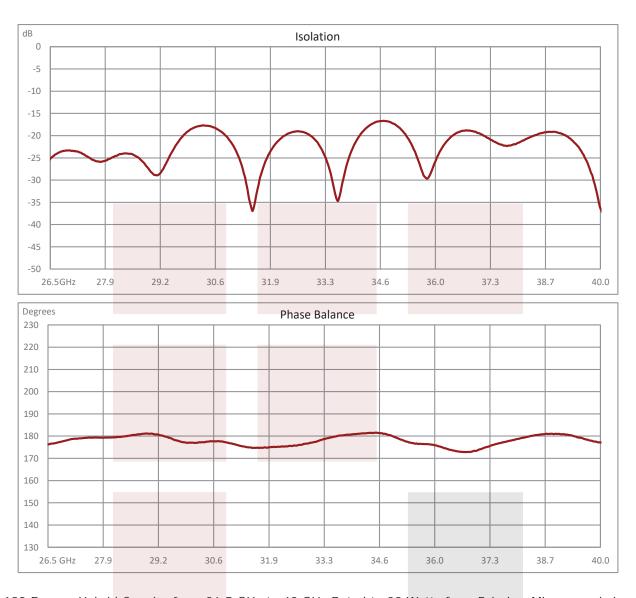
Notes:

Typical Performance Data









2.92mm 180 Degree Hybrid Coupler from 26.5 GHz to 40 GHz Rated to 20 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 180 Degree Hybrid Coupler from 26.5 GHz to 40 GHz Rated to 20 Watts FMCP1161

URL: https://www.fairviewmicrowave.com/2.92mm-180-degree-hybrid-coupler-26.5-40-ghz-20-watts-fmcp1161-p.aspx

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