



Drop-In 90 Degree Hybrid Coupler From 130 MHz to 180 MHz Rated To 200 Watts

The FMCP1032 operates from 130 MHz to 180 MHz and can handle 200 watts of power with 20 dB isolation. The package is 2.2 inch by 0.8 inch with gold plated silver leads and can be attached to a heat sink and PCB by screws. Gold plated leads are resistant to oxidation for ease of soldering and ensuring superior electrical performance of 1.25:1 VSWR and an insertion loss of 0.25 dB.

The FMCP1032 is part of Fairview Microwave's family of 90 degree hybrid couplers in drop-in packages. These couplers feature small drop-in packages that can handle power up to 1,000 Watts. They are available in both narrow and broad bandwidths. These quadrature hybrids are excellent for any situation to either equally split an input signal into two paths with a 90 degree phase shift between them or to combine two signals while maintaining high isolation between them.



Description	Min	Тур	Max	Units
Frequency Range	130		180	MHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.25	dB
Isolation	20			dB
VSWR			1.25:1	
Amplitude Balance		0.4		dB
Phase Balance		5		Degrees
Input Power (CW)			200	Watts



Features:

- · High Power
- 20 dB isolation
- 130 MHz to 180 MHz Frequency Range
- Gold Plated Silver Leads
- 2.2 inch by 0.8 inch package
- Clear Chem Film Per MIL-DTL-5541

Applications:

- Test and measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM
- Military Electronic Systems

Mechanical Specifications

Size

Length 2.2 in [55.88 mm] Width 0.8 in [20.32 mm] Height 0.15 in [3.81 mm] Weight 0.0483 lbs [21.91 g] Body Plating Specification MIL-DTL-5541

Configuration

RF Connector Type Pin

Contact Material and Plating Silver, Gold

Environmental Specifications Temperature

> Operating Range -55 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

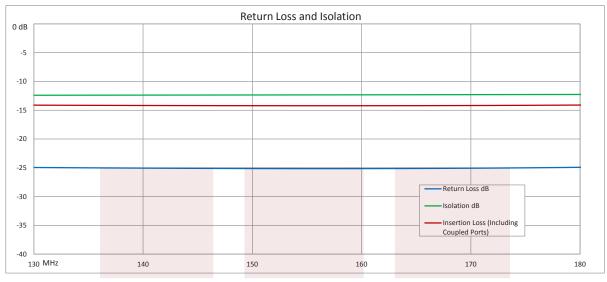
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

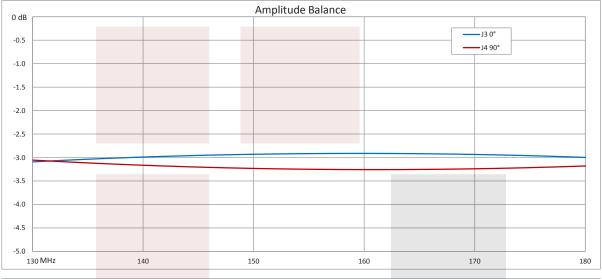
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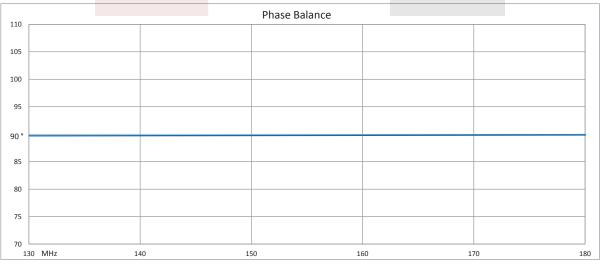




Typical Performance Data











Drop-In 90 Degree Hybrid Coupler From 130 MHz to 180 MHz Rated To 200 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.

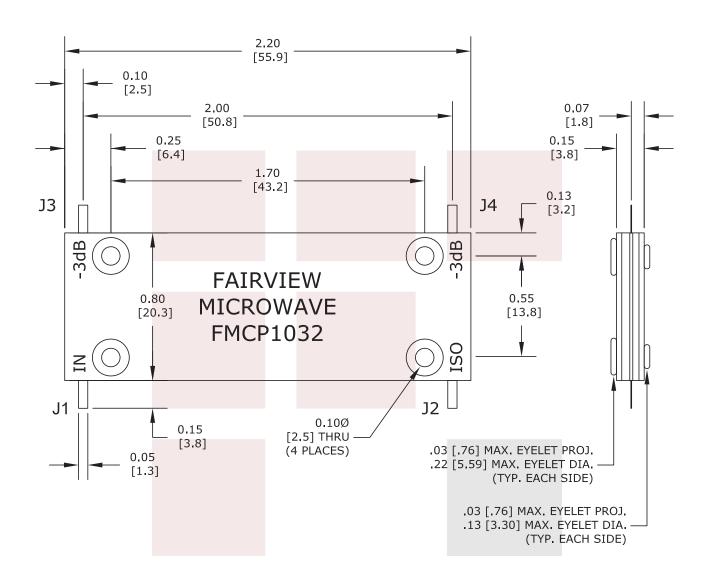
For additional information on this product, please click the following link: Drop-In 90 Degree Hybrid Coupler From 130 MHz to 180 MHz Rated To 200 Watts FMCP1032

URL: https://www.fairviewmicrowave.com/pin-90-degree-hybrid-coupler-130-180-mhz-200-watts-fmcp1032-p.aspx









TOLERANCE .XX ± .02 [.50] IN [mm] .XXX ± .005 [.127] ANG. ± 1/2°

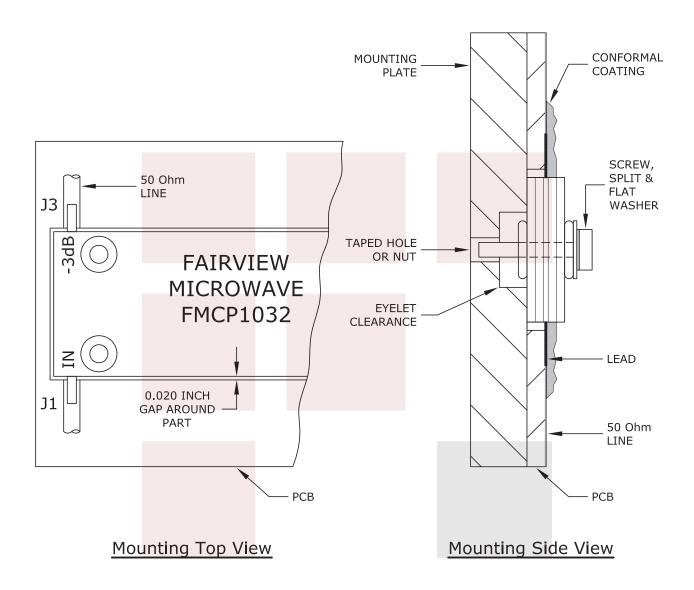
PORT CONFIGURATION							
INPUT	J1	J2	J3	J4			
J1		ISOLATION	-3dB<0 DEG	-3dB<90 DEG			
J2	ISOLATION		-3dB<90 DEG	-3dB<0 DEG			
J3	-3dB<0 DEG	-3dB<90 DEG		ISOLATION			
J4	-3dB<90 DEG	-3dB<0 DEG	ISOLATION				

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
Drop-In 90 Degree Hybrid Coupler From 130 MHz to		DWG NO FMCP1032			CAGE CODE 3FKR5		
180 MHz Rated To 200 Watts	CAD FILE	121015	SHEET	SCAL	E N/A	SIZE A	2233

^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.







NOTE

- 1. CONFORMAL COATING IS RECOMMENDED AT THE LEAD / 50 Ohm LINE INTERFACE FOR HIGH POWER APPLICATIONS TO PREVENT VOLTAGE ARCING.
- 2. TO INSURE PROPER GROUNDING THE BOTTOM PLATE OF COUPLER MUST LAY FLAT ON MOUNTING SURFACE. PLEASE ALLOW CLEARANCE FOR ALL EYELET PROJECTIONS IN BASE PLATE.
- 3. SOLDER LEADS TO 50 Ohm LINES USING LEAD FREE OR Sn63 ALLOY.
- 4. TORQUE STAINLESS STEEL SCREW, SPLIT AND FLAT WASHER TO 2.5 in-lbs.

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