

FMCP1035 DATA SHEET

Drop-In 90 Degree Hybrid Coupler From 225 MHz to 450 MHz Rated To 400 Watts

The FMCP1035 operates from 225 MHz to 450 MHz and can handle 400 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 FMCP1035 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.

Electrical Specifications

Min	Тур	Max	Units
225		450	MHz
	50		Ohms
	90		Degrees
		0.25	dB
20			dB
		1.25:1	
	0.5		dB
	5		Degrees
		400	Watts
	225	225 50 90 20 20 0.5	225 450 225 450 90 0.25 20 0.25 1.25:1 0.5 5 5

Mechanical Specifications

Size Length Width Height Weight Body Plating Specificatio	n	2.2 in [55.88 mm] 0.8 in [20.32 mm] 0.22 in [5.59 mm] 0.084 lbs [38.1 g] MIL-DTL-5541
Configuration RF Connector Type Contact Material and Pla	-	
Environmental Specific Temperature Operating Range	ations	-55 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- High Power
- 20 dB isolation
- 225 MHz to 450 MHz Frequency Range
- Gold Plated Silver Leads
- 2.2 inch by 0.8 inch package
- Clear Chem Film Per MIL-DTL-5541

Applications:

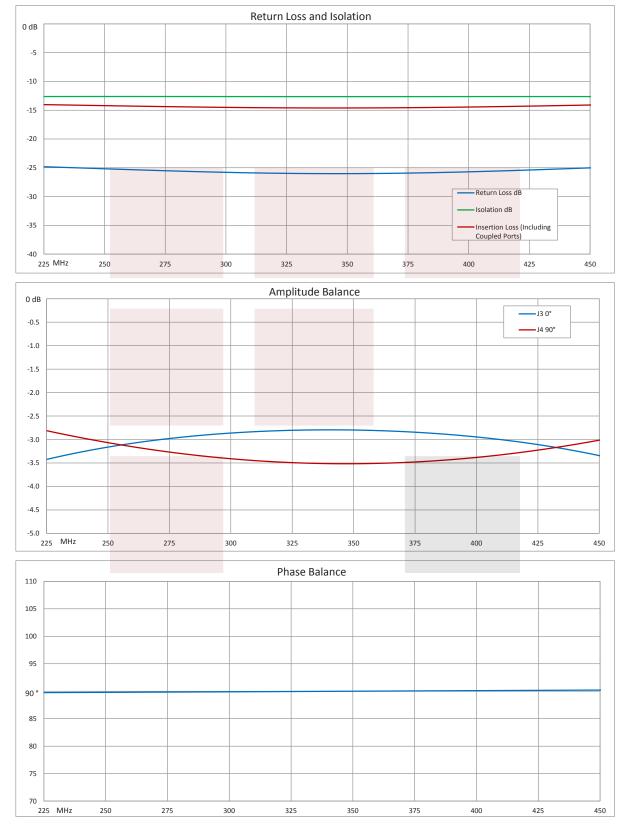
- Test and measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM
- Military Electronic Systems

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data



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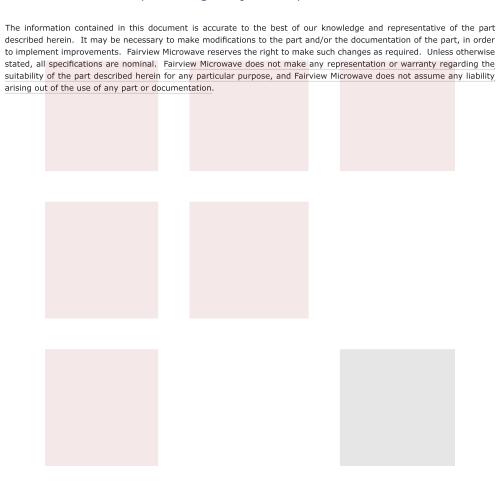




Drop-In 90 Degree Hybrid Coupler From 225 MHz to 450 MHz Rated To 400 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Drop-In 90 Degree Hybrid Coupler From 225 MHz to 450 MHz Rated To 400 Watts FMCP1035

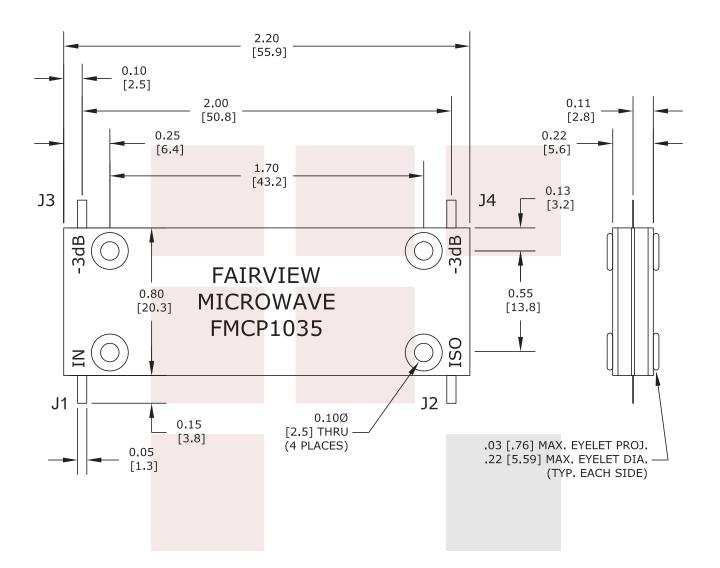
URL: https://www.fairviewmicrowave.com/pin-90-degree-hybrid-coupler-225-450-mhz-400-watts-fmcp1035-p.aspx



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		PORT CONFIGURATION						
TOLERANCE .XX ± .02 [.50] IN [mm] .XXX ± .005 [.127]		J1		J2	J3		J4	
				ISOLATION	-3dB<0 DEG		-3dB<90 DE	G
ANG. ± 1/2°	J2	ISOLATION			-3dB<90 DEG		-3dB<0 DEG	
* THESE DIMENSIONS AND TOLERANCES	J3	-3dB<0 DEG		-3dB<90 DEG			ISOLATION	
SUPERSEDE NOTE #1 ON TITLE BLOCK		-3dB<90 DEG		-3dB<0 DEG	ISOLATION			
FAIRVIEW MICROWAVE INC. NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM 3. DIMENSIONS ARE IN INCHES [mm].						TIME.		
TITLE Drop-In 90 Degree Hybrid Coupler From 225 MHz to		DWG NO FMCP1035			CAGE	CAGE CODE 3FKR5		
450 MHz Rated To 400 Watts								

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CAD FILE 121115

SHEET

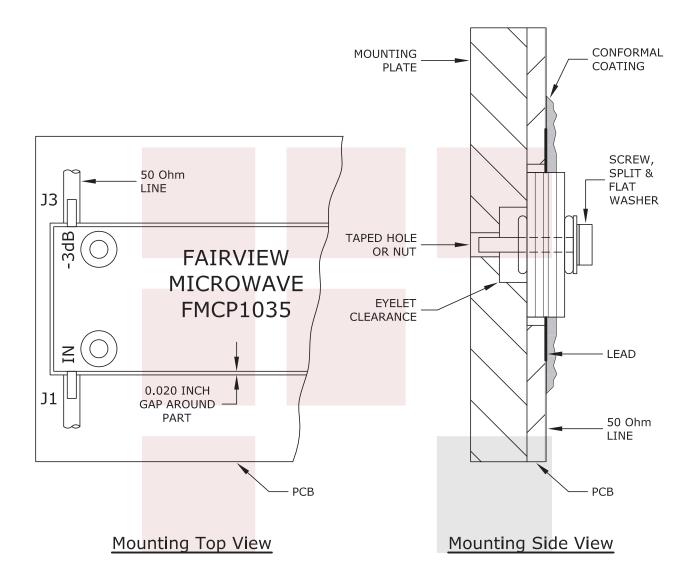
SCALE N/A

SIZE A

2233







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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