

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 package and is attached to the heat sink by two screws. The gold plated leads are soldered to the PCB. This 90 degree hybrid has a VSWR of 1.25:1 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 1000 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

Description	Min	Тур	Max	Units
Frequency Range	225		450	MHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.25	dB
Isolation	20			dB
VSWR			1.25:1	
Amplitude Balance		0.5		dB
Phase Balance		5		Degrees
Input Power (CW)			400	Watts

Pairview. FMCP 1035 225- 450 MHZ

Features:

- 400 watts power
- 20 dB isolation
- 225 MHz to 450 MHz Frequency Range
- Gold plated leads
- 1.25:1 VSWR
- 2.2 inch by 0.8 inch package
- Attach to heat sink by two screws

Applications:

- Power amplifier
- Mixers
- Power dividers/combiners
- Antenna feeds
- Attenuators
- Switches
- Phase shifters

Mechanical Specifications

Size	
Length	2.2 in [55.88 mm]
Width	0.11 in [2.79 mm]
Height	0.8 in [20.32 mm]
Configuration	

Mechanical Specification Notes: Finish per MIL-DTL-5541, Type 2, Rev. F, Class 3

Environmental Specifications

Temperature Operating Range

-55 to 85 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant REACH Compliant

12/17/2014

Plotted and Other Data

Notes:

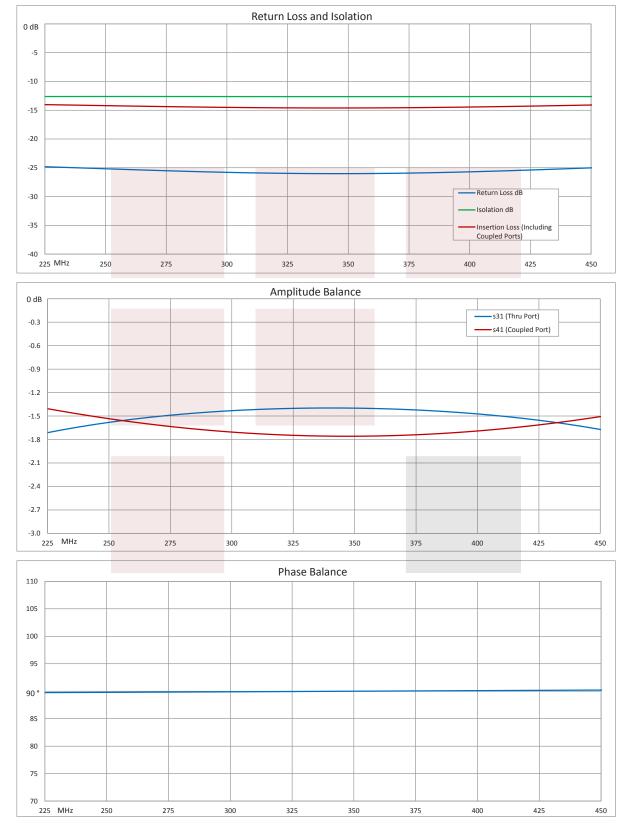
Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com

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Typical Performance Data



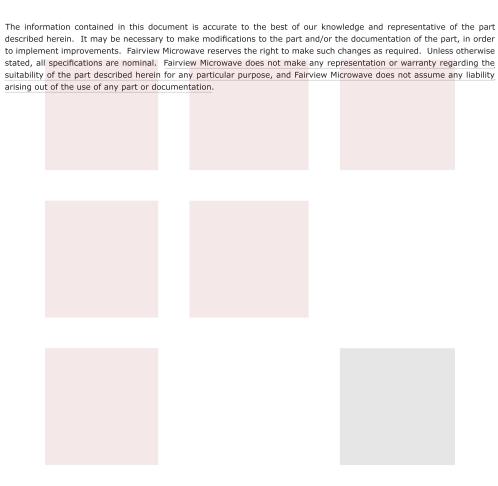




Drop-In 90 Degree Hybrid Coupler From 225 MHz to 450 MHz Rated To 400 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

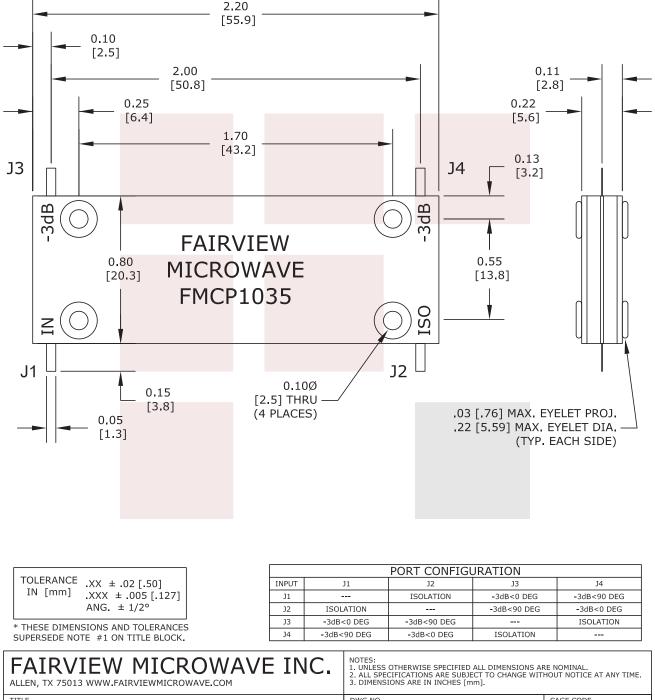
For additional information on this product, please click the following link: Drop-In 90 Degree Hybrid Coupler From 225 MHz to 450 MHz Rated To 400 Watts FMCP1035

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







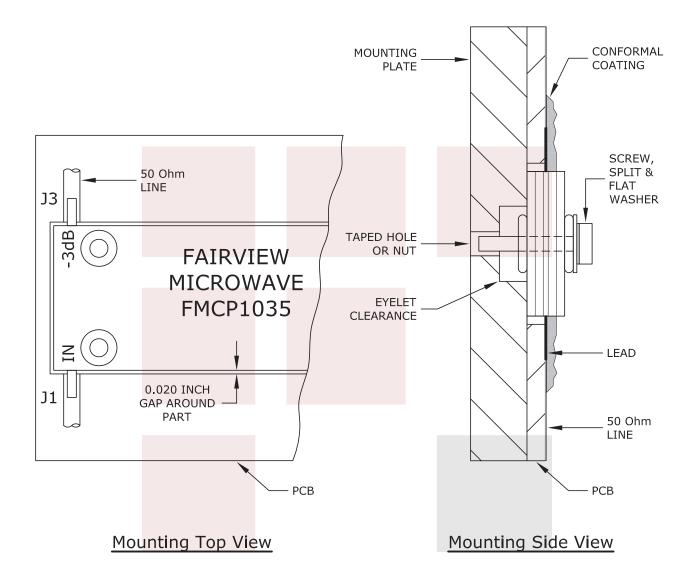


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DWG NO FMCP1035			CAGE CODE 3FKR5			
CAD FILE	121115	SHEET	SCAL	E N/A	SIZE A	2233







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.

FAIRVIEW MICROWAVE INC.	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].				
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