

FMCP1056 DATA SHEET

Drop-In 90 Degree Hybrid Coupler From 2 GHz to 6 GHz Rated To 100 Watts

The FMCP1056 operates from 2 GHz to 6 GHz and can handle 100 watts of power with 18 dB isolation. The package is 1.3 inch by .25 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 1.3:1 VSWR and an insertion loss of 0.3 dB.

The FMCP1056 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

Description	Min	Тур	Max	Units
Frequency Range	2		6	GHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.3	dB
Isolation	18			dB
VSWR			1.3:1	
Amplitude Balance		1		dB
Phase Balance		5		Degrees
Input Power (CW)			100	Watts

Mechanical Specifications

Picenanical Specification	0113					
Size Length Width Height Body Plating Specification	on	1.3 in [33.02 mm] 0.18 in [4.57 mm] 0.25 in [6.35 mm] MIL-DTL-5541				
Configuration RF Connector Type Contact Material and Pla	ating	Pin Silver, Gold				
Environmental Specific Temperature Operating Range	cations	-55 to +85 deg C				
Compliance Certification document) RoHS Compliant	ons (visit www.Fai	rviewMicrowave.com for curre	ent			
REACH Compliant		12/17/2015		Fairview Microw	ave	
Plotted and Other Data Notes:	a			1130 Junction E Allen, TX 75013	Dr. #100 3 -4396 / (972) 64	19-6678



Features:

- High Power
- 18 dB isolation
- 2 GHz to 6 GHz Frequency Range
- Gold Plated Silver Leads
- 1.3 inch by 0.25 inch package
 Clear Chem Film Per
- MIL-DTL-5541

Applications:

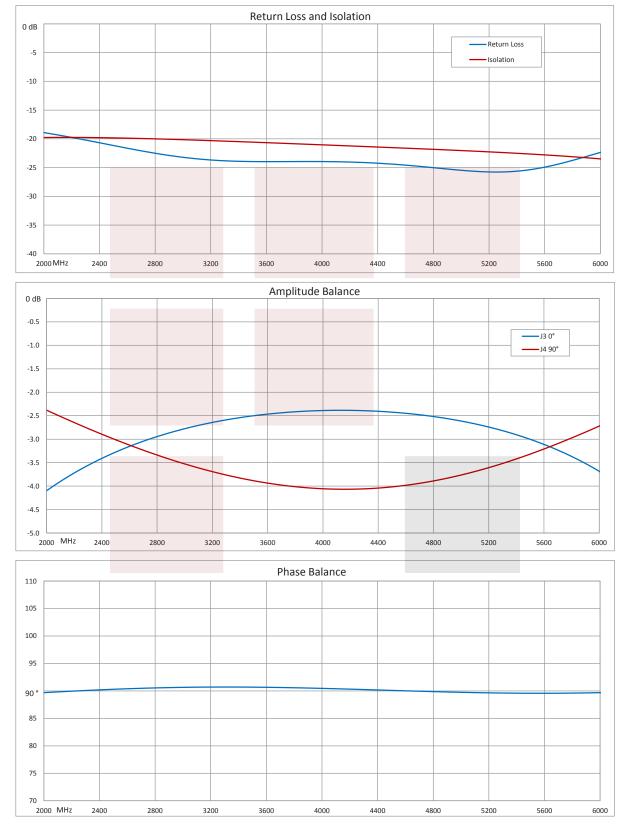
- Test and measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM
- Military Electronic Systems

www.fairviewmicrowave.com sales@fairviewmicrowave.com



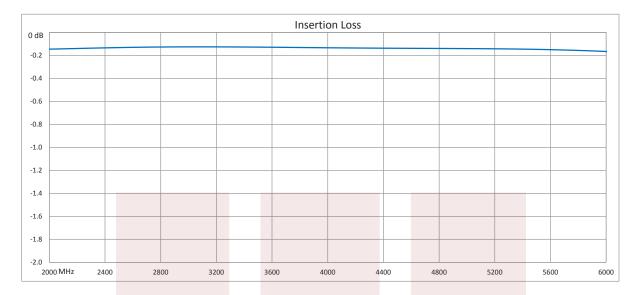


Typical Performance Data









Drop-In 90 Degree Hybrid Coupler From 2 GHz to 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 Allen, Texas. Fairview Microwave is RF on-demand.

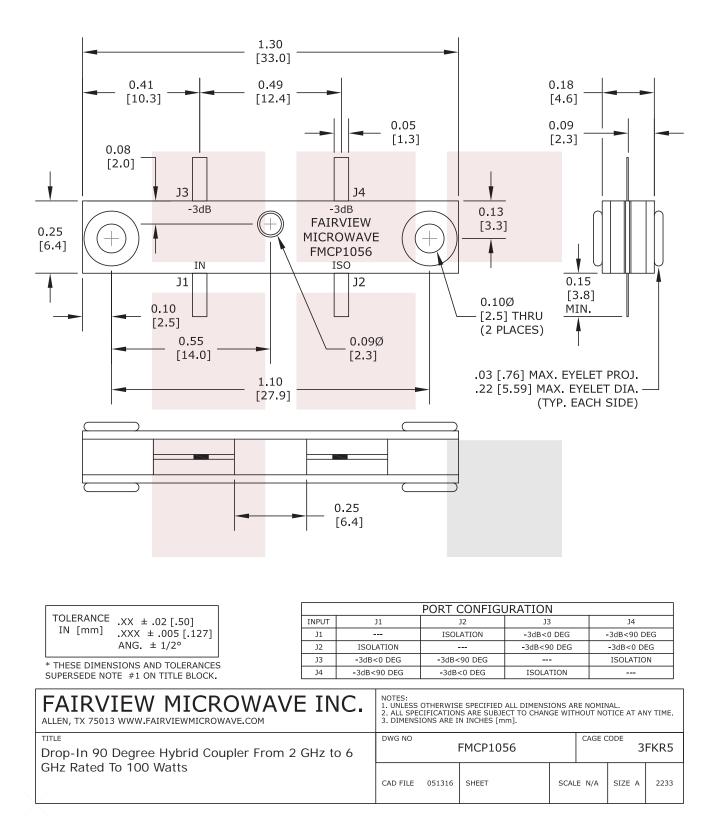
For additional information on this product, please click the following link: Drop-In 90 Degree Hybrid Coupler From 2 GHz to 6 GHz Rated To 100 Watts FMCP1056

URL: http://www.fairviewmicrowave.com/pin-90-degree-hybrid-coupler-2-6-ghz-100-watts-fmcp1056-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

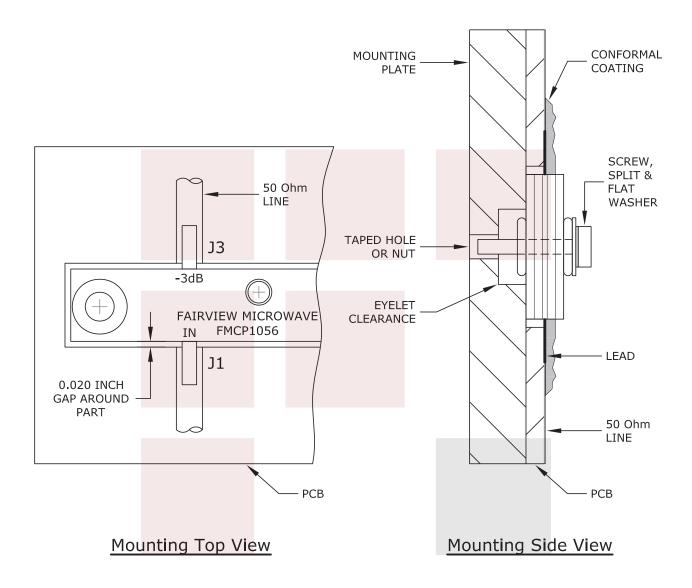












NOTE:

- 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].					
Drop-In 90 Degree Hybrid Coupler From 2 GHz to 6 GHz Rated To 100 Watts	DWG NO FMCP1056			CAGE CODE 3FKR5		
	CAD FILE 051316	SHEET	SCALE	N/A	SIZE A	2233