

**SMA 90 Degree Hybrid Coupler From 2 GHz to 4 GHz
 Rated To 50 Watts**

The SH7217 is a 90 degree hybrid coupler that operates from 2 to 4 GHz and can handle up to 50 Watts (CW) with 22 dB isolation minimum and 1.2:1 VSWR maximum. The package interface uses SMA female connectors, and is RoHS compliant.

The SH7217 is part of Fairview Microwave's family of 90 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 90 degree difference in phase.



Features:

- 90° Hybrid Coupler
- 2 to 4 GHz Frequency Range
- Isolation > 22 dB
- VSWR < 1.2:1
- Max Power 50 Watt (CW)

Applications:

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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2		4	GHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Coupling		3		dB
Isolation	22			dB
VSWR			1.2:1	
Amplitude Balance		1		dB
Phase Balance		3		Degrees
Input Power (CW)			50	Watts

Mechanical Specifications

Size

Length	0.79 in [20.07 mm]
Width	0.51 in [12.95 mm]
Height	0.43 in [10.92 mm]
Weight	0.052 lbs [23.59 g]

Configuration

RF Connector Type	SMA Female
-------------------	------------

Environmental Specifications

Temperature

Operating Range	-55 to +85 deg C
Storage Range	-55 to +100 deg C

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

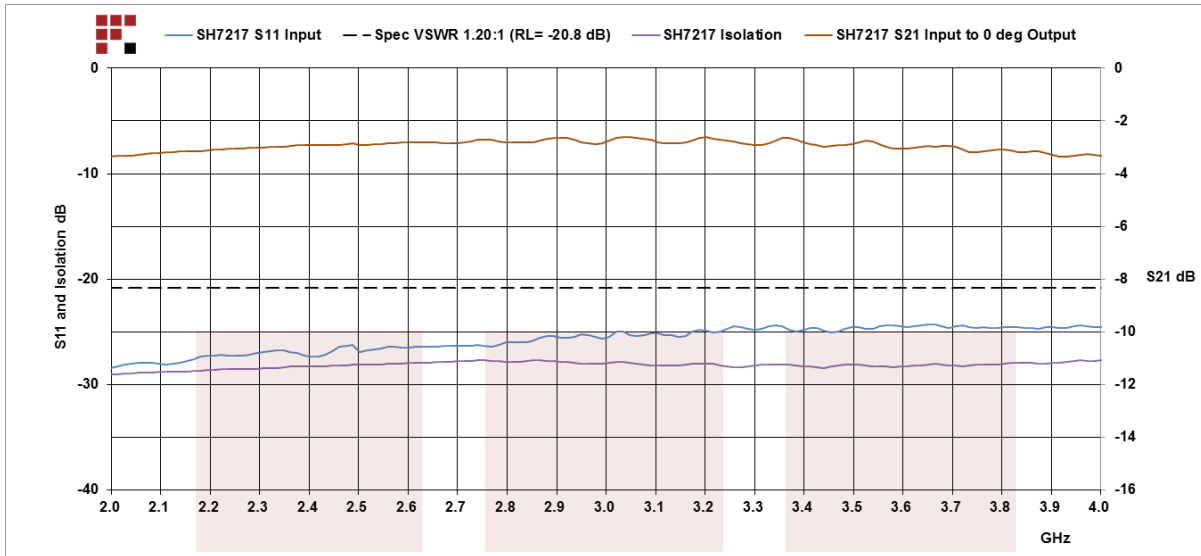
RoHS Compliant

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

Typical Performance Data

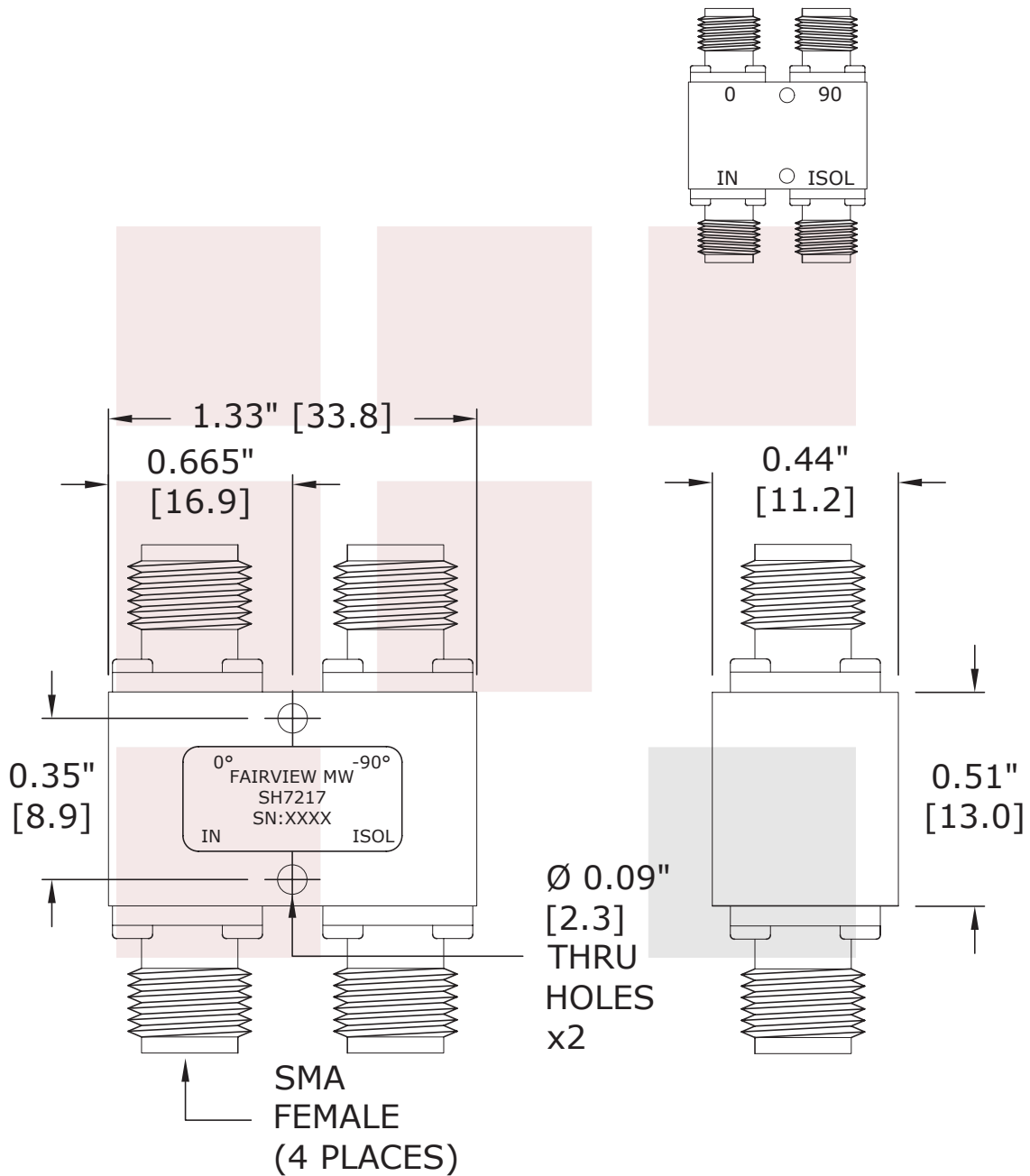


SMA 90 Degree Hybrid Coupler From 2 GHz to 4 GHz Rated To 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA 90 Degree Hybrid Coupler From 2 GHz to 4 GHz Rated To 50 Watts SH7217](#)

URL: <https://www.fairviewmicrowave.com/sma-90-degree-hybrid-coupler-2-4-ghz-50-watts-sh7217-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.



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].		
TITLE SMA 90 Degree Hybrid Coupler From 2 GHz to 4 GHz Rated To 50 Watts		DWG NO SH7217	CAGE CODE 3FKR5	
CAD FILE	061416	SHEET	SCALE N/A	SIZE A 3045