

SH7226 DATA SHEET

SMA 90 Degree Hybrid Coupler From 4 GHz to 26.5 GHz Rated To 20 Watts

The SH7226 is a 90 degree hybrid coupler that operates from 4 to 26.5 GHz and can handle up to 20 Watts (CW) with 15 dB isolation minimum and 1.75:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The SH7226 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.



Description	Min	Тур	Max	Units	
Frequency Range	4		26.5	GHz	
Impedance		50		Ohms	
Phase Difference		90		Degrees	
Isolation	15			dB	
VSWR			1.75:1		
Amplitude Balance		3		dB	
Phase Balance		8		Degrees	
Input Power (CW)			20	Watts	



Features:

- 90° Hybrid Coupler
- 4 to 26.5 GHz Frequency Range
- Isolation > 15 dB
- VSWR < 1.75:1
- Max Power 20 Watt (CW)

Applications:

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

Mechanical Specifications

Size
Length
Width
Height
Weight
Configuration
RF Connector Type

1.7 in [43.18 mm] 0.85 in [21.59 mm] 0.4 in [10.16 mm] 0.078 lbs [35.38 g]

SMA Female

Environmental Specifications Temperature

Operating Range Storage Range

Humidity

Shock

Vibration

Altitude

-25 to +80 deg C -55 to +150 deg C

MIL-STD-202, Method 106 (90% relative humidity, +65°C) MIL-STD-202, Method 213/I (100 G's, 6 ms) MIL-STD-202, Method 204/D (10 to 2,000 Hz, 20 G's, 12 hours) MIL-STD-202, Method 105/E

(150,000 feet)

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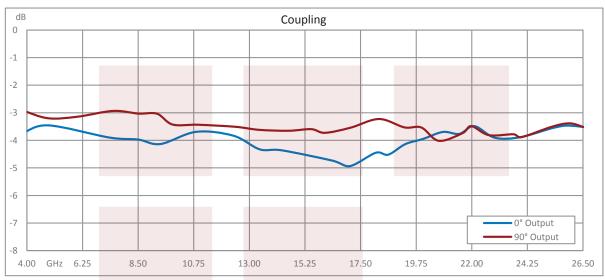
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

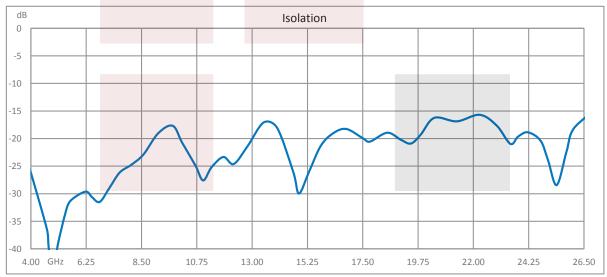
RoHS Compliant
REACH Compliant
12/17/2015

Plotted and Other Data

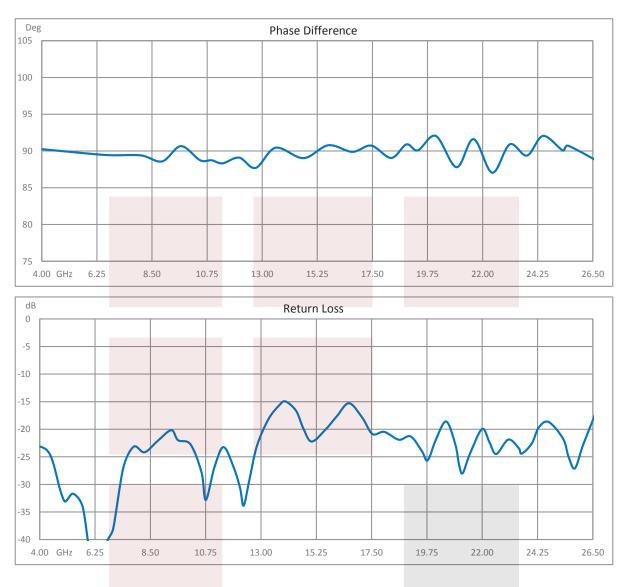
Notes:

Typical Performance Data









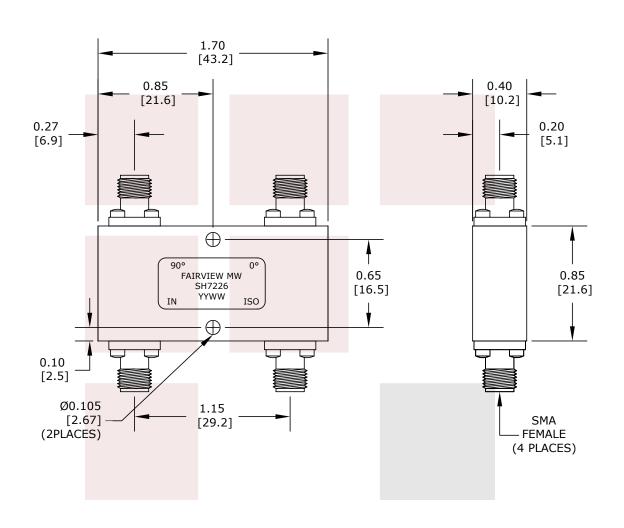
SMA 90 Degree Hybrid Coupler From 4 GHz to 26.5 GHz Rated To 20 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA 90 Degree Hybrid Coupler From 4 GHz to 26.5 GHz Rated To 20 Watts SH7226

URL: https://www.fairviewmicrowave.com/sma-90-degree-hybrid-coupler-4-26.5-ghz-20-watts-sh7226-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.





STANDARD TOLERANCES

.XX ±0.02 .XXX ±0.010

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].						
SMA 90 Degree Hybrid Coupler From 4 GHz to 26.5	DWG NO	SH7226		CAGE CODE 3FKR5			
GHz Rated To 20 Watts	CAD FILE 041316	SHEET	SCALE	E N/A	SIZE A	3045	