



SMA 90 Degree Hybrid Coupler From 4 GHz to 8 GHz Rated To 50 Watts

The SH7219 is a 90 degree hybrid coupler that operates from 4 to 8 GHz and can handle up to 50 Watts (CW) with 18 dB isolation minimum and 1.35:1 VSWR maximum. The package interface uses SMA female connectors, and is RoHS compliant.

The SH7219 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		8	GHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Coupling		3		dB
Isolation	18			dB
VSWR			1.35:1	
Amplitude Balance		1		dB
Phase Balance		4		Degrees
Input Power (CW)			50	Watts



Features:

- 90° Hybrid Coupler
- 4 to 8 GHz Frequency Range
- Isolation > 18 dB
- VSWR < 1.35:1
- Max Power 50 Watt (CW)

Applications:

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

Mechanical Specifications

Size

Length Width Height Weight

Body Material and Plating

Configuration

Contact Material and Plating

RF Connector Type

1.01 in [25.65 mm] 0.51 in [12.95 mm] 0.43 in [10.92 mm] 0.045 lbs [20.41 g]

Passivated Stainless Steel

SMA Female

Beryllium Copper, Gold

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

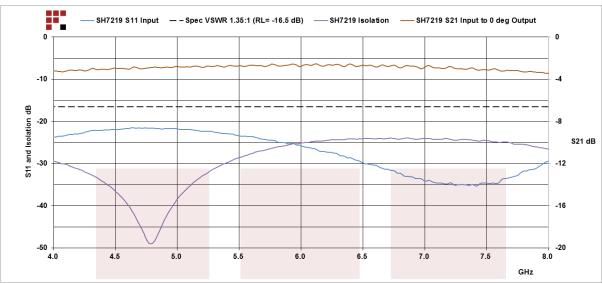
Notes:

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Typical Performance Data



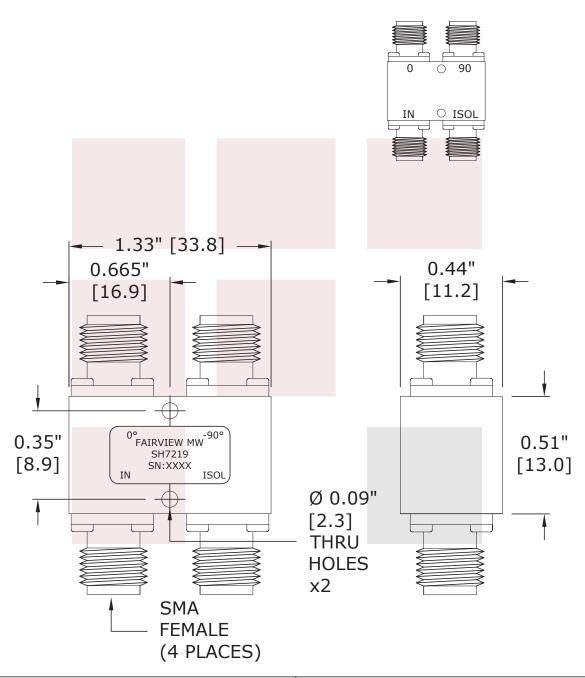
SMA 90 Degree Hybrid Coupler From 4 GHz to 8 GHz Rated To 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA 90 Degree Hybrid Coupler From 4 GHz to 8 GHz Rated To 50 Watts SH7219

URL: https://www.fairviewmicrowave.com/sma-90-degree-hybrid-coupler-4-8-ghz-50-watts-sh7219-p.aspx

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SMA 90 Degree Hybrid Coupler From 4 GHz to 8 GHz Rated To 50 Watts	DWG NO SH7219			CAGE CODE 3FKR5			
	CAD FILE 061416	SHEET	SCALE	E N/A	SIZE A	3045	