EP4W02180_SMA Power Divider

4-way, stripline, 2-18 GHz, SMA Female

Technical Characteristics

Product Features
Wide Frequency Response 2-18 GHz
High Input Power Handling: 30.0 Watts
Phase Unbalance: + 2 ° Typical
Insertion Loss (Above 6dB): 0.7dB Typical
Low Cost Connectorized Module

Product Description

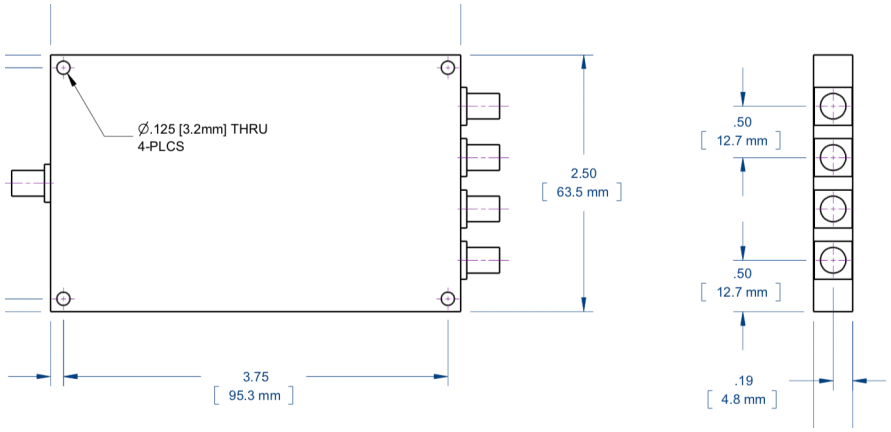
EclipseMDI Products EPW02180_SMA is an wideband power splitter operating from 2 to 18 GHz. This power splitter is ideal for applications that requires 4 outputs with low phase unbalance. Common port VSWR of this splitter is typically <1.6:1 from 2 to 20 GHz. The EPW02180_SMA is available in a small connectorized module ideal for commercial and industrial applications.

Electrical Specifications @ +25°C

Electrical Specifications	Min.	Typical	Max.	Units	Notes
Frequency Range	2.0		18.0	GHz	
Impedance		50.0		Ω	
Insertion Loss		0.7	1.5	dB	Above 6.02 dB loss due to splitting
Amplitude Unbalance		0.3	0.8	dB	
Phase Unbalance		±2.0	6.0	Ω	
Isolation	16.0	>18.0		dB	
Common Port VSWR		< 1.6	1.8	:1	
Split Port VSWR		< 1.4	1.5	:1	
Input Power			+30.0	Watts	Coherant splitting into load VSWR of 1.20:1 max.

Mechanical Specifications	Min.	Typical	Max.	Units	Notes
Operating Temperature	-55.0		+85.0	° C	Tested at +25° C
Storage Temperature	-55.0		+125.0	° C	
Relative Humidity		0.7	1.5	dB	Non condensing
Operating Environment	Indoor use only				
Enclosure Material	Aluminum Alloy 6061				
Enclosure Finish	RoHS Compliant Clear Chem. Film per MIL-DTL-5541 Class 3				
Connector Material	Body: Stainless Steel 303; Contact Pin: Beryllium Copper, Gold Plating; Insulator: PTFE				
Solder Alloy	Sn 96.5, Ag 3.0, Cu 0.5				

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
[mm] SHOWN FOR CONVENIENCE
TOLERANCES ON:
2 PL DECIMALS: ± .03
3 PL DECIMALS: ± .015
ANGLES:" + 1.0 °



Specifications subject to change without notice.
This document shall not form part of a contract.
REPLACES P/N's 4PSS0218 and WMPD04-2-18-S-X
Request product change notice PCN-1001.

About EclipseMDI

ECLIPSE Microdevices is located in San Jose, California. ECLIPSE has been developing high performance analog semiconductors for use in wireless radio frequency (RF), microwave, and millimeter wave for commercial and industrial applications. ECLIPSE has formed a strategic alliances - with foundries that features leading state-of-the-art process technologies and with manufacturing facilities for high-volume production of innovative RFIC's.

Quality products that serve the industry. Today and tomorrow.

www.eclipseMDI.com
1.408.526.1100

EclipseMDI, Inc.
2095-60 Ringwood Ave.
San Jose, CA 95131

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Typical Test Data Performance

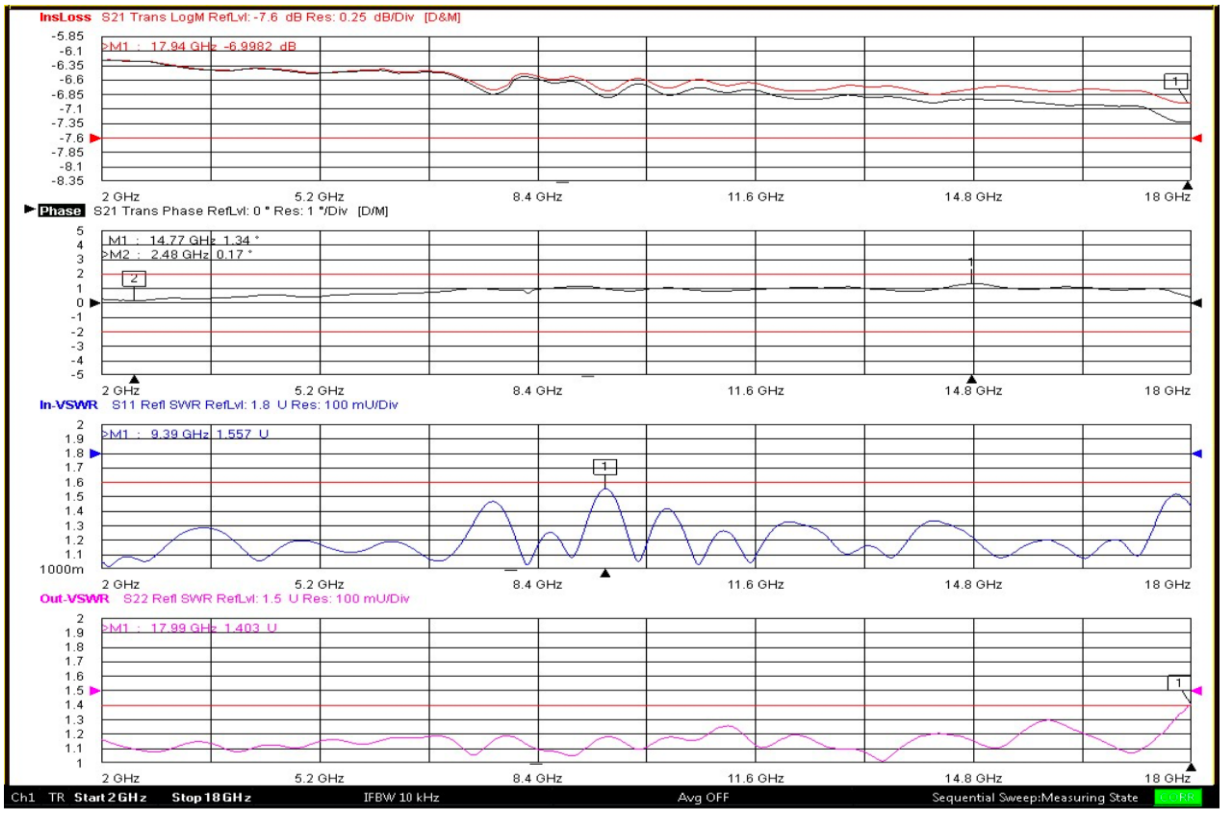
Actual unit to unit performance may vary.

Insertion Loss
Ampltiude Balance

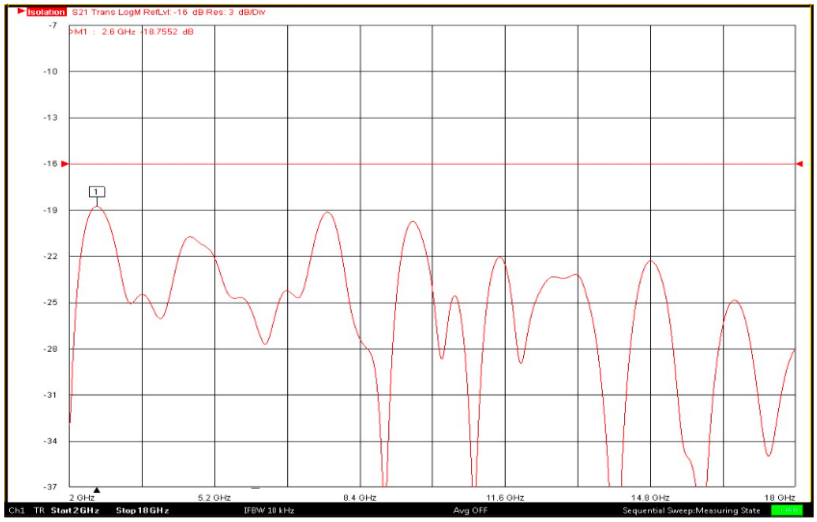
Phase Balance

Input Return Loss

Output Return Loss



Isolation



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