



High Performance Power Divider

8-way Stripline, 2-18GHz, SMA-Female

RoHS
Compliant

A power divider designed to cover the continuous bands from 2 to 18 GHz. Designed and built for ruggedization and long-term reliability.

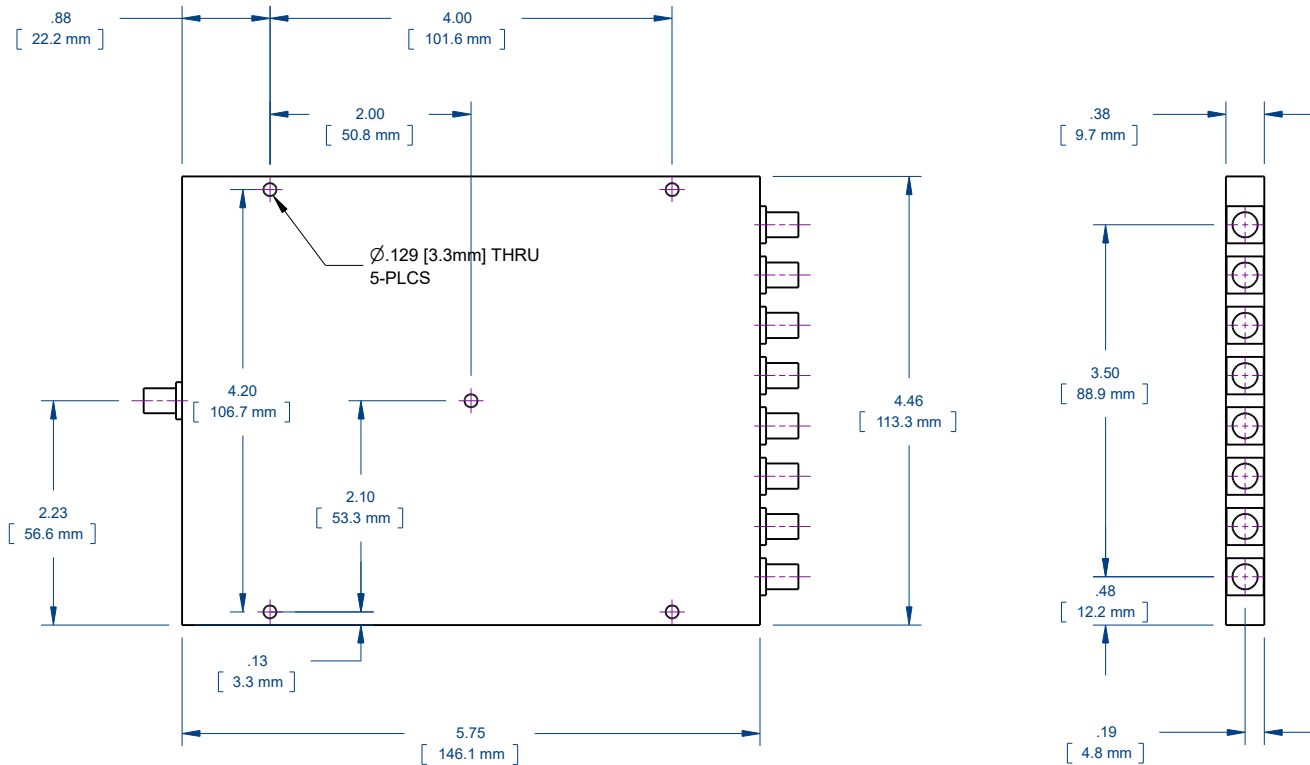
Features:

- * Stripline design with low-loss dielectric.
- * Stainless steel body connectors.
- * Field-replaceable, pin-and-socket connections to PCB relieves mechanical stress.
- * Tuning screws at each port for precise phase matching and VSWR optimization during production.
- * Case screws sealed from underside with engine enamel.
- * Passivated aluminum enclosure.

Outline Dimensions:

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 [mm] SHOWN FOR CONVENIENCE
 TOLERANCES ON:
 2 PL DECIMALS: ± .03
 3 PL DECIMALS: ± .015
 ANGLES: ± 1°

Specifications and test data on following pages.



Specifications subject to change without notice.
 This document shall not form part of a contract.

SIZE A	CAGE CODE 78YZ0	DRWG NO. SPEC-WMPD08-2-18-S	REV. 1
SCALE 1 : N/A		SHEET	



Made in U.S.A.

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TABLES 1-3 - General specifications.

Electrical Specifications	Min	Typ	Max	Unit	Notes
Frequency Range	2		18	GHz	
Impedance		50		Ohms	By design.
Insertion Loss		1.5	2.4	dB	In addition to loss due to splitting.
Amplitude Unbalance		0.2	1.0	dB	
Phase Unbalance		5	10	deg	
Isolation	16	> 18		dB	
Common Port VSWR		< 1.6	1.9	:1	
Split Ports VSWR		< 1.4	1.5	:1	
Input Average Power			25	W	Coherent splitting into max load VSWR 1.20:1.

Mechanical Specifications	Min	Typ	Max	Unit	Notes
Operating Temperature	-55		+85	°C	Design to meet, tested at +25 °C.
Storage Temperature	-55		+125	°C	Design to meet.
Relative Humidity			85	%	Non-condensing.
Weight		15		oz	Approximate.
Enclosure Material	Aluminum Alloys 6061, Passivated				
Enclosure Finish	RoHS Clear Chemical Conversion Film per MIL-DTL-5541 Class 3				
Operating Environment	Indoor use only.				
Connectors Material	Body: Stainless Steel, Passivated. Insulator: PTFE. Contact: BeCu, Gold-Plated.				
Solder Alloy(s) Used:	Sn 96.5, Ag 3.0, Cu 0.5				

Packaging Specifications	Description
Connector Protection	Caplugs EC-4 or equivalent.
Unit Protection	Anti-Static Padded Pouch U-Line S-12582 or equivalent.

NOTES

Custom paint, labelling and/or finishing options available. Contact Werbel Microwave LLC with your specific requirements.



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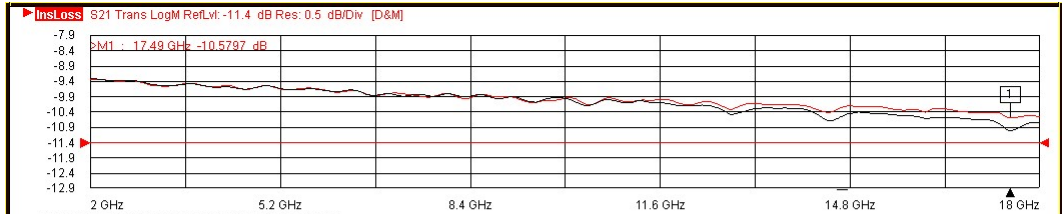
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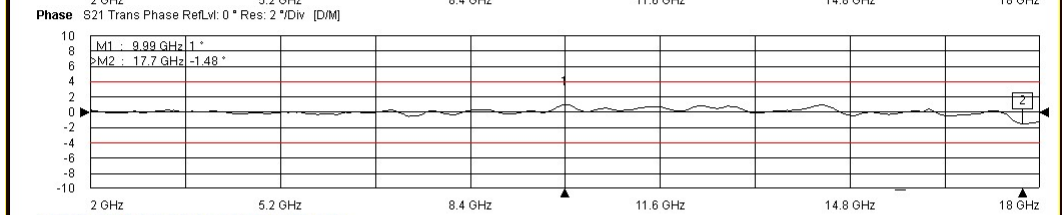
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-= Typical Performance Data =-
 Example shown. Actual unit-to-unit performance may vary.

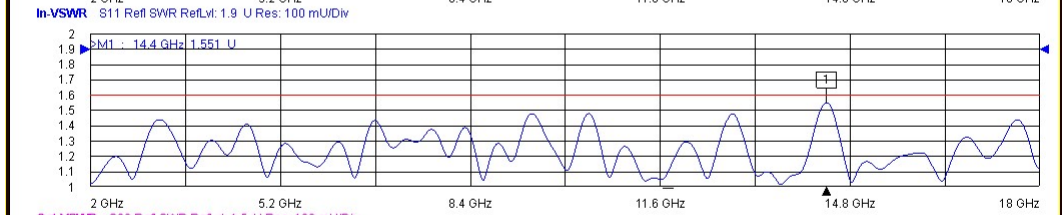
Insertion Loss
Amplitude Balance



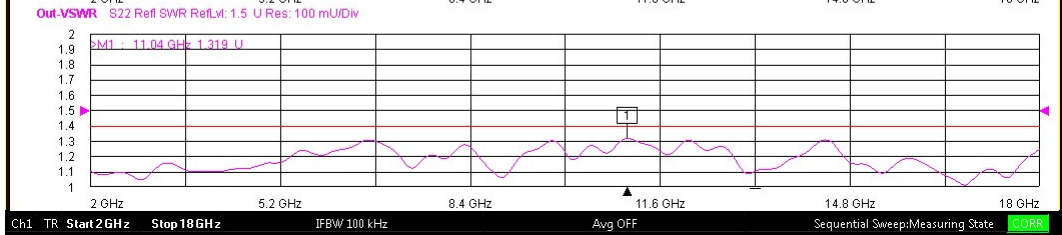
Phase Balance



Common Port VSWR



Split Port VSWR



Isolation
(Ports 1-2, 3-4, 5-6)

