



## High Performance Power Divider

3-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.

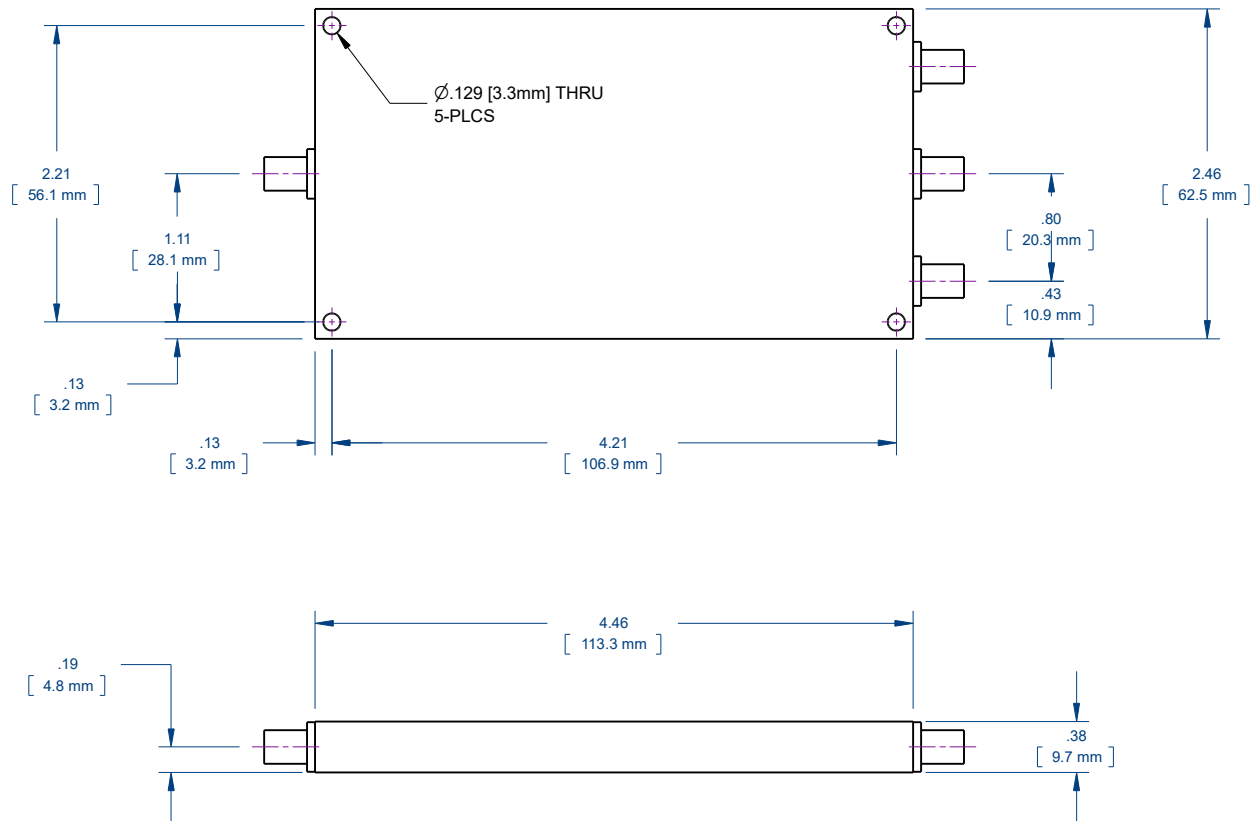
**Features:**

- \* Stripline design with low-loss dielectric.
- \* Stainless steel body connectors.
- \* Field-replaceable, pin-and-socket connections to PCB relieves mechanical stress.
- \* "True" 3-way (not a 4-way with one output internally-terminated).
- \* 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 <b>A</b>	CAGE CODE 78YZ0	DRWG NO. SPEC-WMPD03-2-18-S	REV. 1
SCALE 1 : N/A		SHEET	



Made in U.S.A.

## High Performance Power Divider

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

RoHS  
Compliant

### TABLES 1-3 - General specifications.

Electrical Specifications	Min	Typ	Max	Unit	Notes
Frequency Range	2		18	GHz	
Impedance		50		Ohms	By design.
Insertion Loss		0.8	1.3	dB	In addition to loss due to splitting.
Amplitude Unbalance		0.3	0.9	dB	
Phase Unbalance		± 3	8	deg	
Isolation	16	22		dB	
Common Port VSWR		1.6	1.8	: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		7		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-12581 or equivalent.

### NOTES

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



Made in U.S.A.

## High Performance Power Divider

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

RoHS  
Compliant

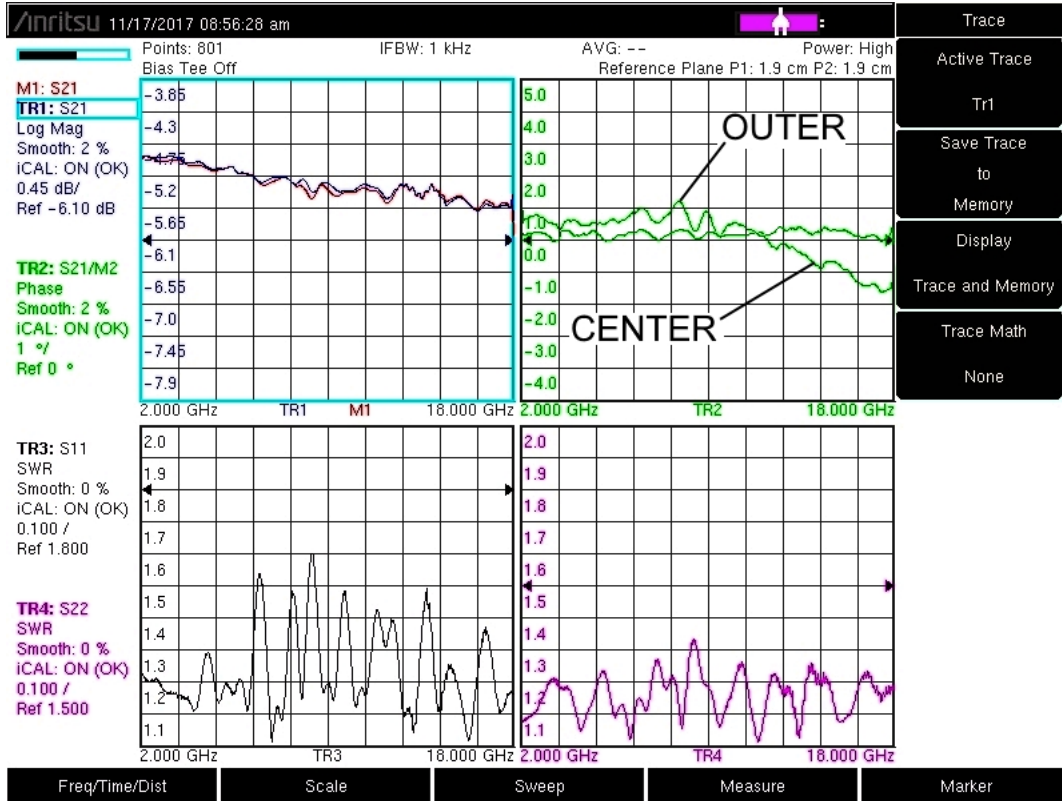
**-= Typical Performance Data =-**

Example shown. Actual unit-to-unit performance may vary.

Insertion Loss

Amplitude Balance

Phase Balance



Common Port VSWR

Split Port VSWR

Isolation

