

PRODUCT DATA SHEET

D6193

Werlatone® Mismatch Tolerant® High Power Broadband RF Combiners and Dividers will operate into High Load VSWR Conditions, for extended periods, without damage. With extensive experience as a supplier to military platforms worldwide **Werlatone®** designs its High Power Broadband Combiners, Power Dividers, and N-Way Combiners for proper operation in the most stringent operating conditions.

Features:

High Power Wide Bandwidths Small Size High Isolation Custom Designs Available

Electrical Specifications:

Frequency: 20 - 500 MHz
Power: 25 W CW
Insertion Loss: 0.65 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.3 dB Max.
Isolation: 20 dB Min.

Mechanical Specifications:

Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Weight: 0.5 lbs.
Size: 3.0 x 3.0 x 0.8"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D6193-102	SMA	SMA

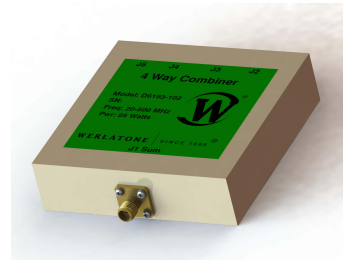
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration from a list of options. Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-Way Combiners are available upon request.



WERLATONE

Model D6193

Combiners In-Phase Connectorized

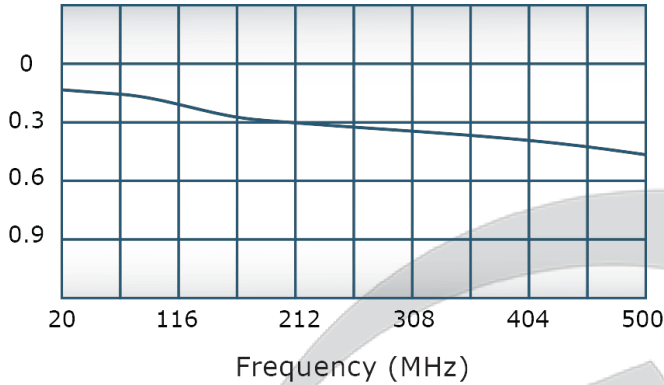


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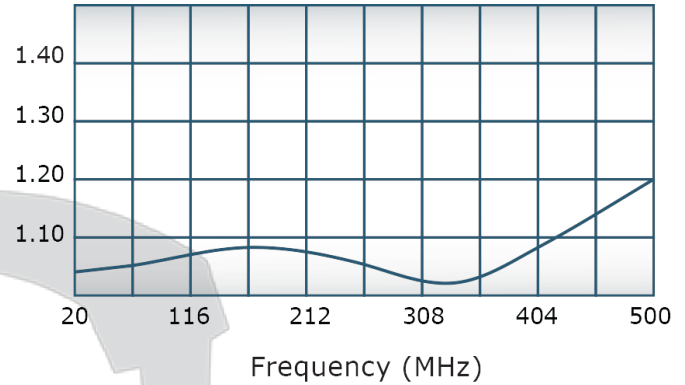
D6193

Performance Data (Specifications subject to change without notice):

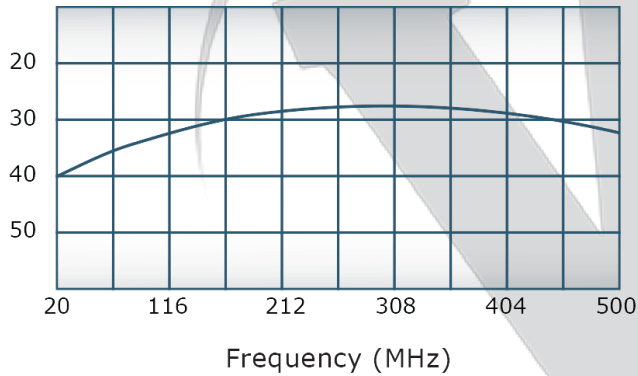
Insertion Loss:



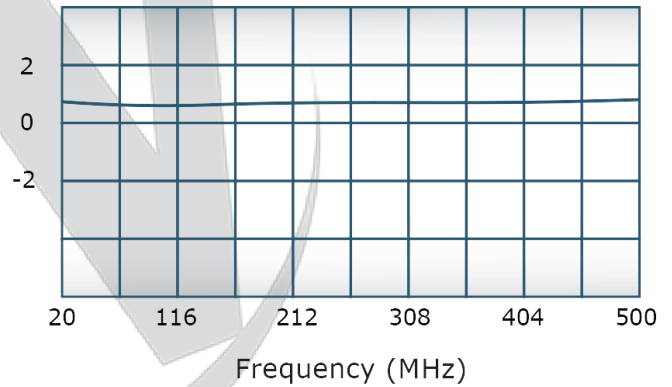
VSWR:



Isolation:



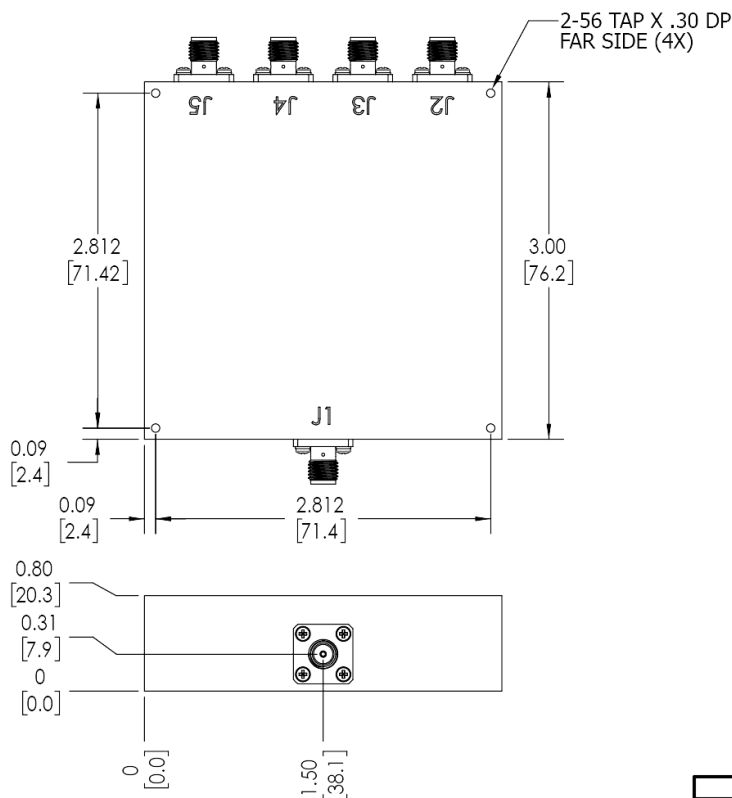
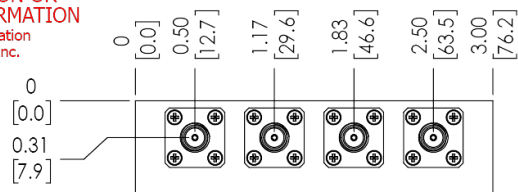
Phase Balance:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 8542	1/09/14	SC
B	ECN 9696	9/10/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:
J1-J5: SMA FEMALE**

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563			
		INTERPRET DRAWING 1001 MIL-STD-100		SD	9/10/2019					
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE					
		PARENTHESES FOR REF ONLY		CS	9/10/2019					
		DIMENSIONS ARE IN INCHES		ENGR	DATE					
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INPR	DATE					
		TOLERANCES:		QA	DATE					
		ANGLES ± 2°		RLSE	DATE					
		3 PL ± .005 (13)				OUTLINE	SIZE	CAGE CODE	DWG NO	REV
		2 PL ± .015 (30)								
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX								
		CONCENTRICITY MACHINED DIA. .002 FIM								
		MACHINE TOOL MISMATCH .003 DIA.								
NEXT ASSY		USED ON								
APPLICATION		THIRD ANGLE PROJECTION								

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