



PRODUCT DATA SHEET

D7312

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: 10 - 100 MHz
Power: 100 W CW
Insertion Loss: 0.35 dB Max.
VSWR: 1.25:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.2 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)
D7312-102	SMA	SMA

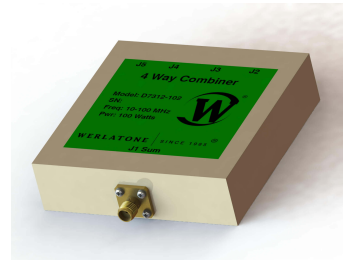
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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 D7312

Combiners In-Phase Connectorized

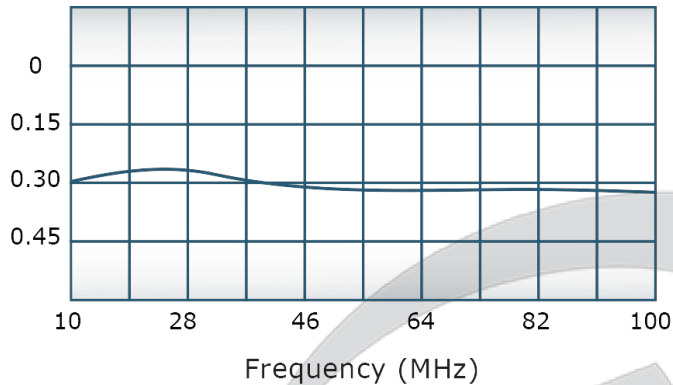


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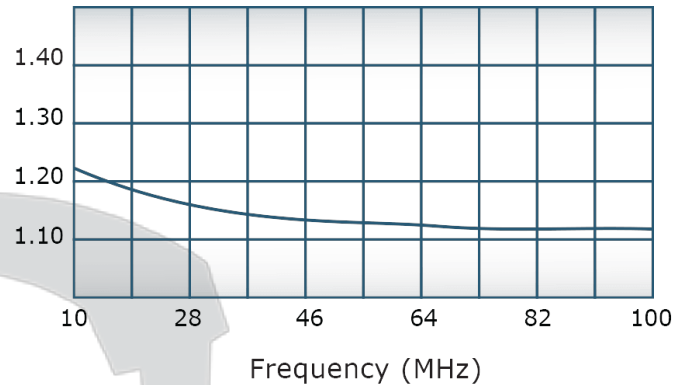
D7312

Performance Data (Specifications subject to change without notice):

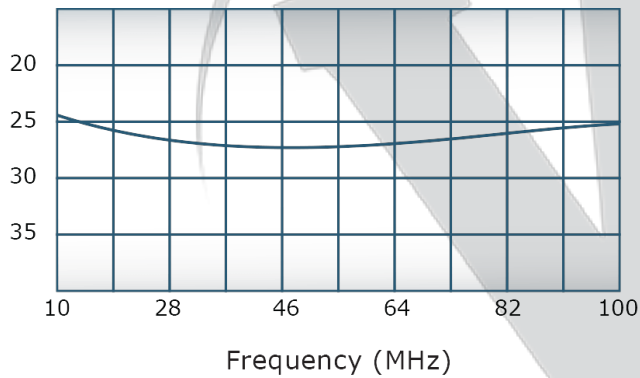
Insertion Loss:



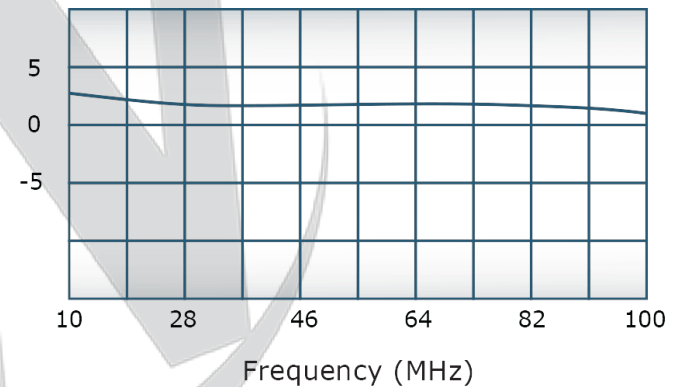
VSWR:



Isolation:



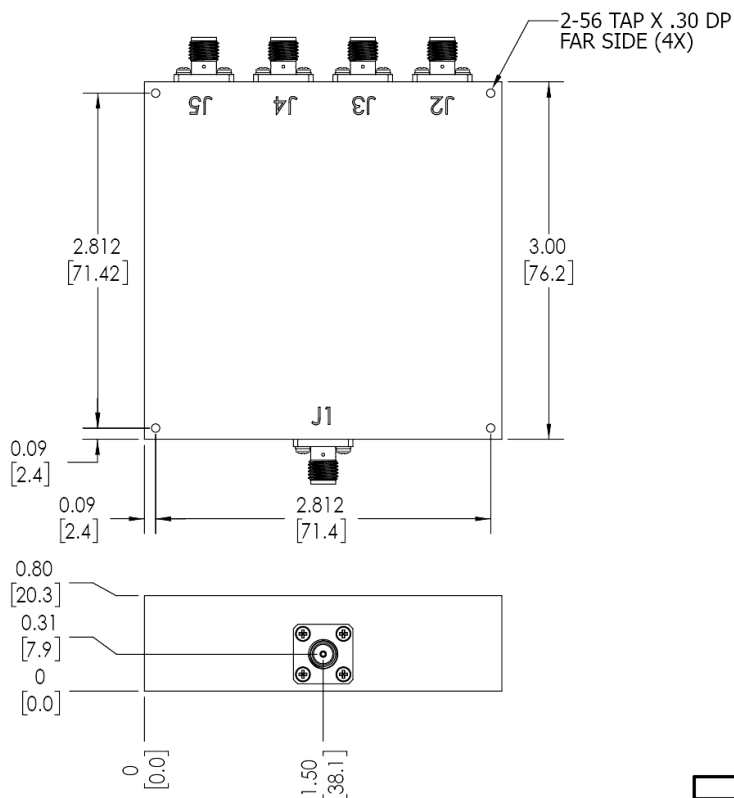
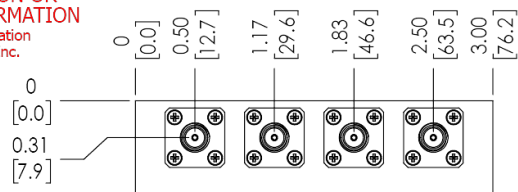
Phase Balance:



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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 DIMENSIONS PER ASME Y14.5M-2009 PARENTHESES FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE FINISHES TOLERANCES: ANGLES ± 2° 3 PL ± .005 (13) 2 PL ± .015 (30) REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX		SD	9/10/2019		OUTLINE	SIZE CAGE CODE DWG NO 10664-500	REV B
				CHK	DATE				
				CS	9/10/2019				
				ENGR	DATE				
				INPR	DATE				
				QA	DATE				
				RLSE	DATE				
NEXT ASSY USED ON		THIRD ANGLE PROJECTION		SCALE		SHEET 1 OF 1			
APPLICATION				1:1					

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