

## PRODUCT DATA SHEET

D6738

**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: 100 - 500 MHz  
Power: 50 W CW  
Insertion Loss: 0.65 dB Max.  
VSWR: 1.30:1 Max.  
Phase Balance:  $\pm 5^\circ$  Max.  
Amplitude Balance: 0.25 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: 1.5 lbs.  
Size: 3.0 x 3.0 x 0.8"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D6738-102	SMA	SMA

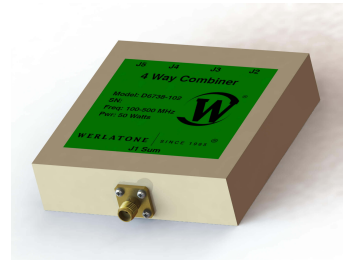
**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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 D6738

Combiners In-Phase Connectorized

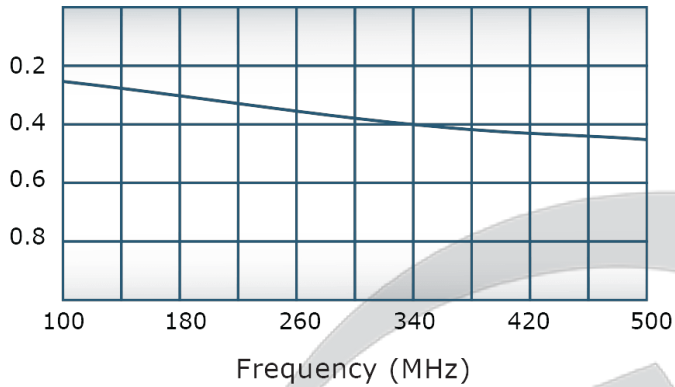


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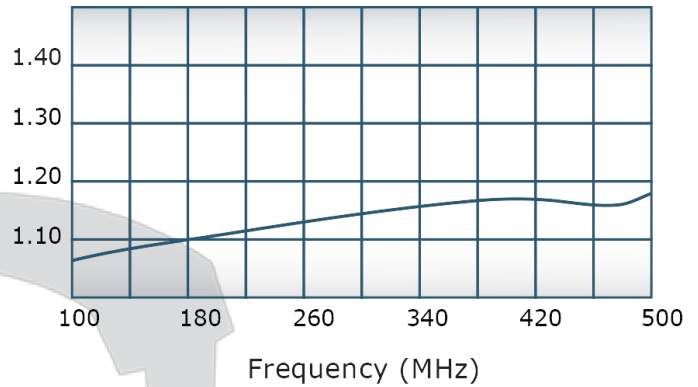
D6738

### Performance Data (Specifications subject to change without notice):

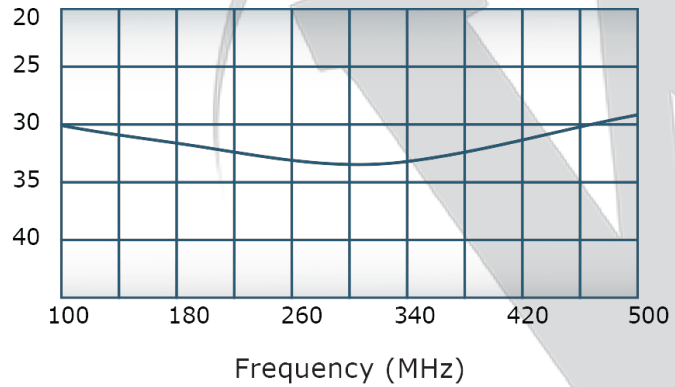
Insertion Loss:



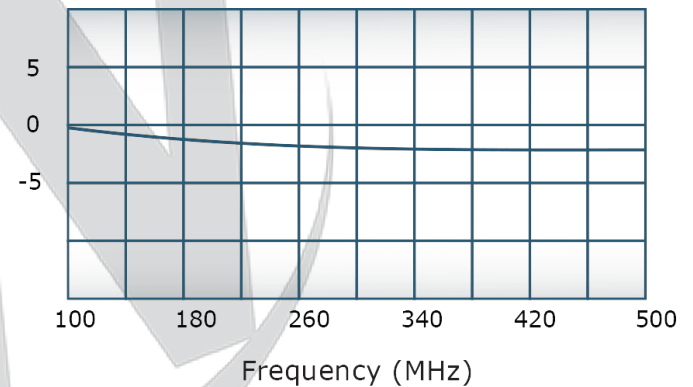
VSWR:



Isolation:



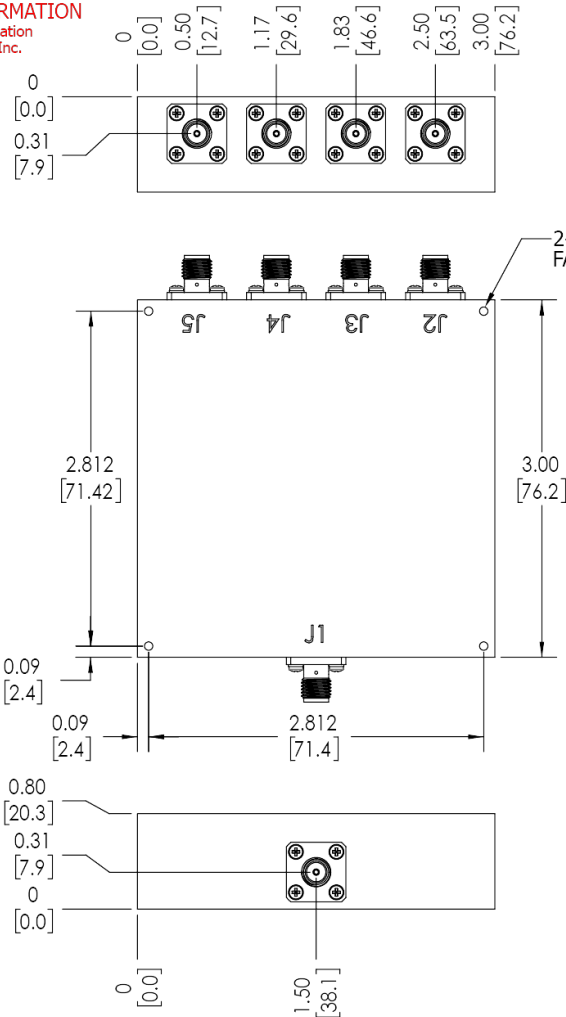
Phase Balance:



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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	<div> WERLATONE  SINCE 1965</div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>			
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	9/10/2019				
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE			
		PARENTHESES FOR REF ONLY		CS	9/10/2019				
		DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE			
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INPR	DATE				
		TOLERANCES:		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		ANGLES ± 2°				B		10664-500	B
		3 PL ± .005 [13]				SCALE			
		2 PL ± .015 [38]				1:1			
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SHEET 1 OF 1			
		CONCENTRICITY MACHINED DIA. .002 FIM							
		MACHINE TOOL MISMATCH .003 MAX							
		THIRD ANGLE PROJECTION							
NEXT ASSY		USED ON							
APPLICATION									

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