

## 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.

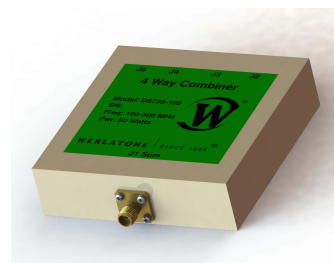
### Mechanical Specifications:

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.

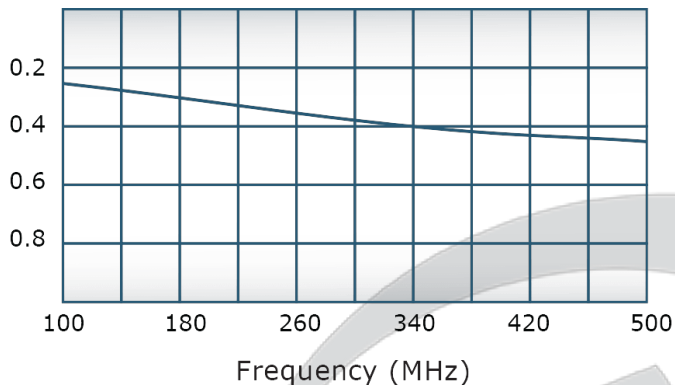


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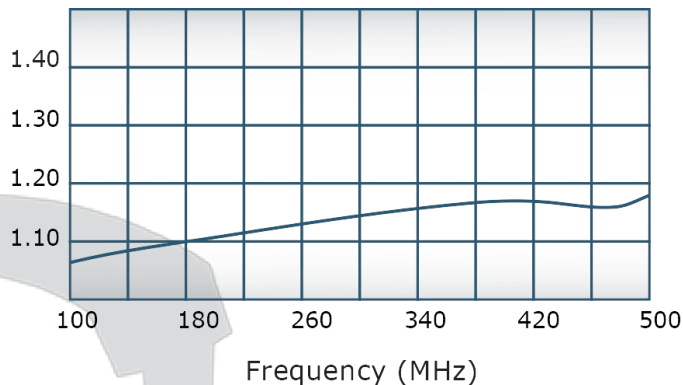
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### Performance Data (Specifications subject to change without notice):

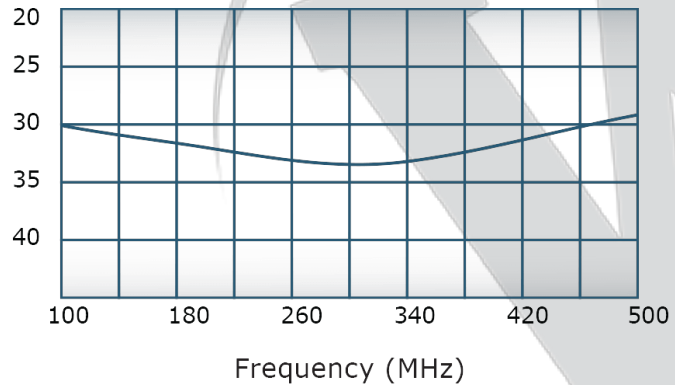
Insertion Loss:



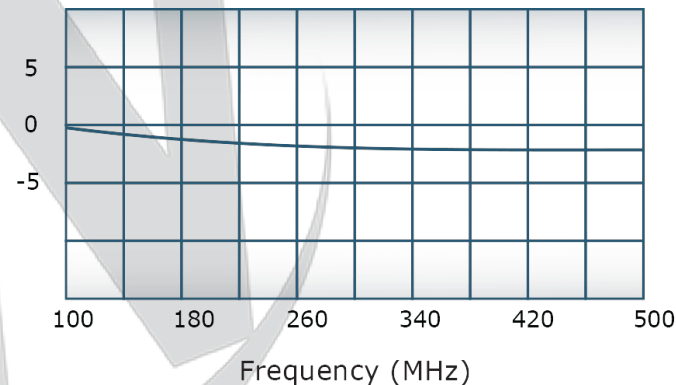
VSWR:



Isolation:



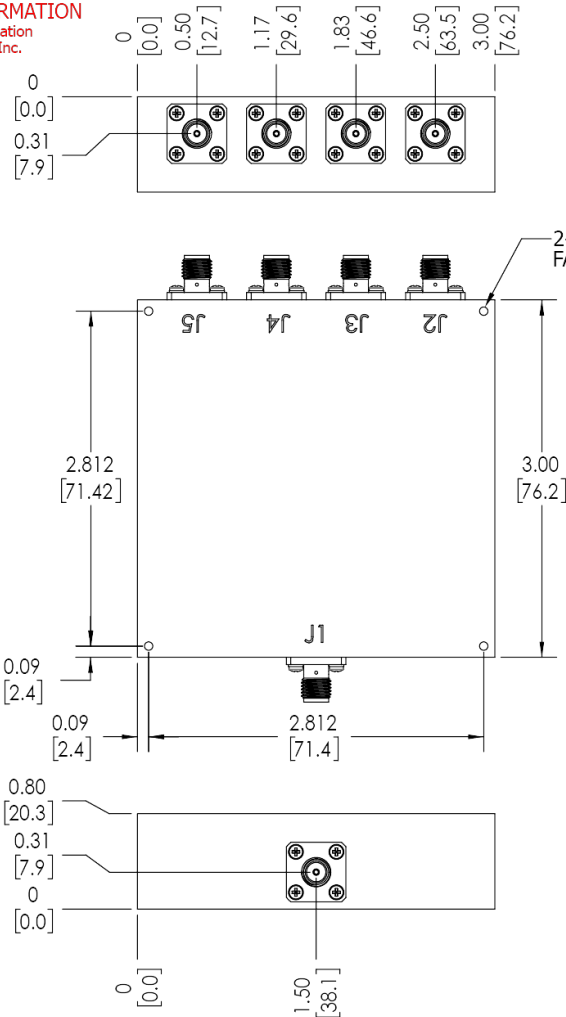
Phase Balance:



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

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

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