



## PRODUCT DATA SHEET

D7630

**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: 800 - 3000 MHz  
Power: 200 W CW  
Insertion Loss: 0.4 dB Max.  
VSWR: 1.35:1 Max.  
Phase Balance:  $\pm 5^\circ$  Max.  
Amplitude Balance: 0.25 dB Max.  
Isolation: 15 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: 3.7 x 1.9 x 0.87"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D7630-10	N Female	N Female	N Female
D7630-11	N Female	N Male	N Male
D7630-12	N Female	SMA	SMA
D7630-102	SMA	SMA	SMA
D7630-300	TNC	TNC	TNC

**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.

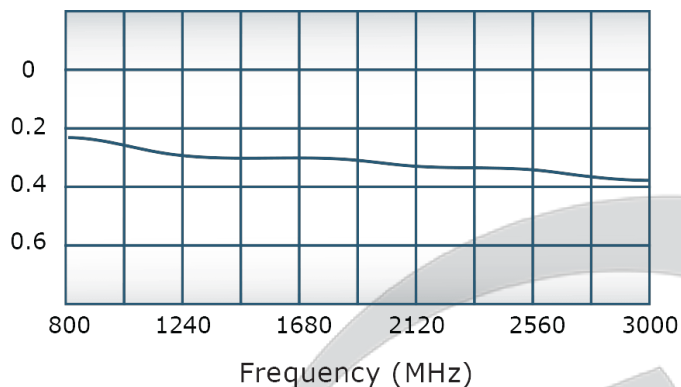


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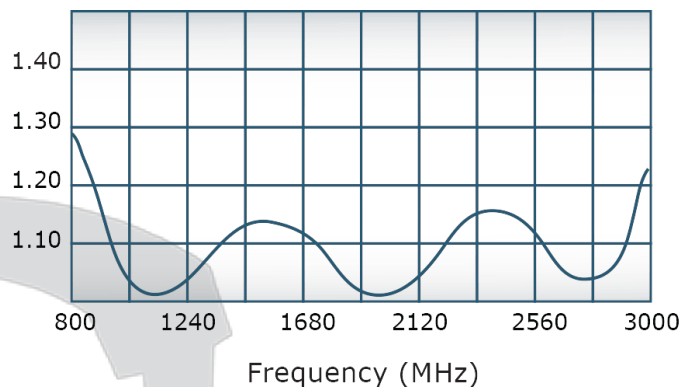
D7630

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

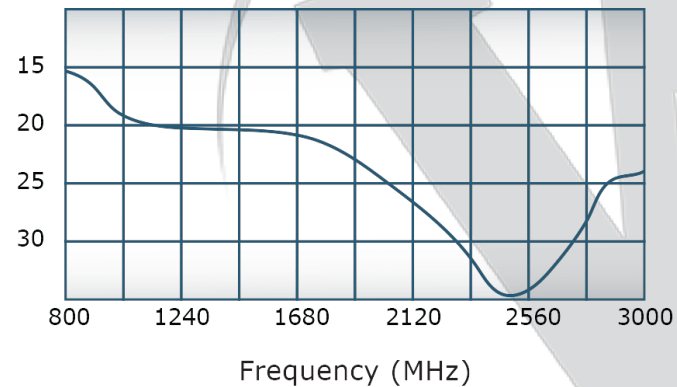
Insertion Loss:



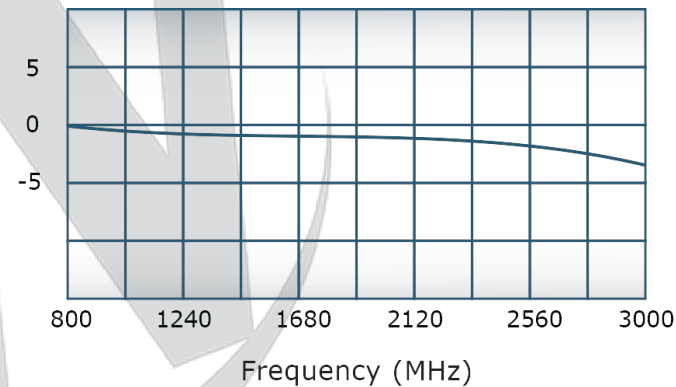
VSWR:



Isolation:



Phase Balance:

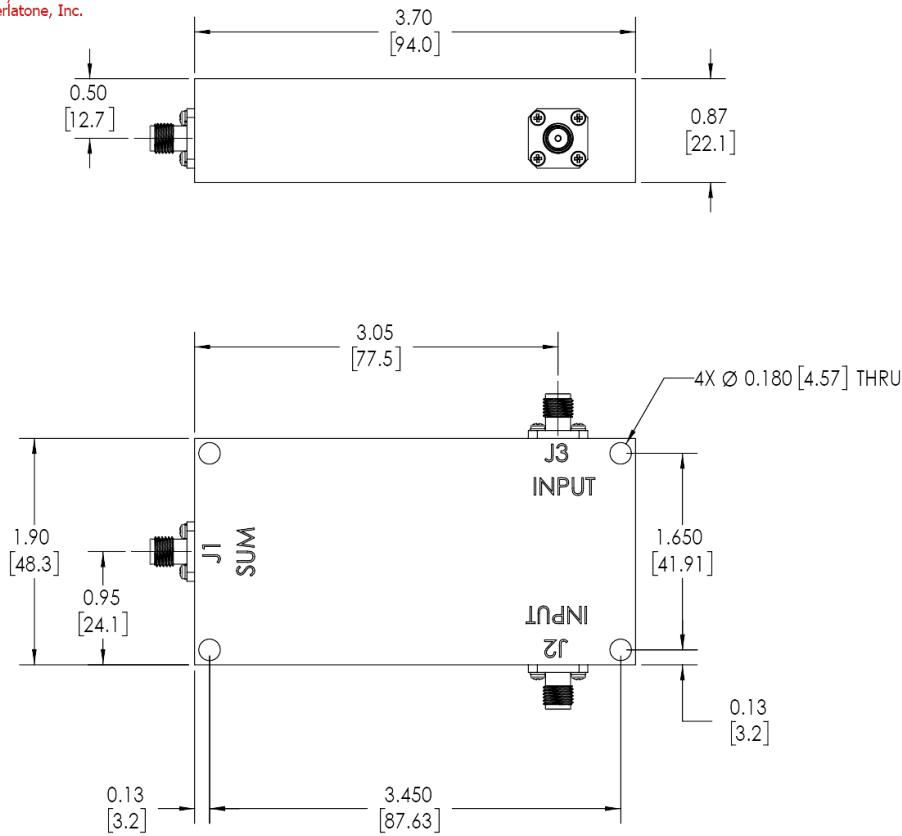



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/20/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:  
J1-J3: SMA FEMALE**



UNLESS OTHERWISE SPECIFIED		SD	DATE	 <b>WERLATONE</b> SINCE 1965         17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING 1000 MIL-STD-100		CHK	DATE	
DIMENSIONS PER ASME Y14.5M-2009		CS	DATE	
PARENTHESES FOR REF ONLY		ENGR	DATE	
DIMENSIONS ARE IN INCHES		INPR	DATE	<b>OUTLINE</b> SIZE CAGE CODE DWG NO <b>B 20202-500</b>
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		QA	DATE	
TOLERANCES:		RLSE	DATE	
ANGLES ± 2° 3 PL ± .005 (.13) 2 PL ± .015 (.38) REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		REV A
APPLICATION		SCALE 1:1		SHEET 1 OF 1

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