


**PRODUCT DATA SHEET**
**H7450**

**Werlatone®** High Power 180° RF Hybrid Combiners/Dividers balance traditional technologies with disruptive microwave techniques. The outcome is a microwave component which provides an order of magnitude improvement over current capabilities. Our newest line of high power, patented 180° RF Hybrid Combiners/Dividers provides an incredible 5:1 bandwidth, while exhibiting exceptionally low loss and superior port-to-port isolation.

**Features:**

High Power      Wide Bandwidths      Small Size      Excellent Amplitude Balance

**Electrical Specifications:**

Frequency:            100 - 500 MHz  
 Power:                200 W CW  
 Insertion Loss:       1.0 dB Max.  
 VSWR:                1.35:1 Max.  
 Phase Balance:       180° ± 5° 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:                2 lbs.  
 Size:                    6.0 x 5.0 x 2.24"

**Connector Configurations:**

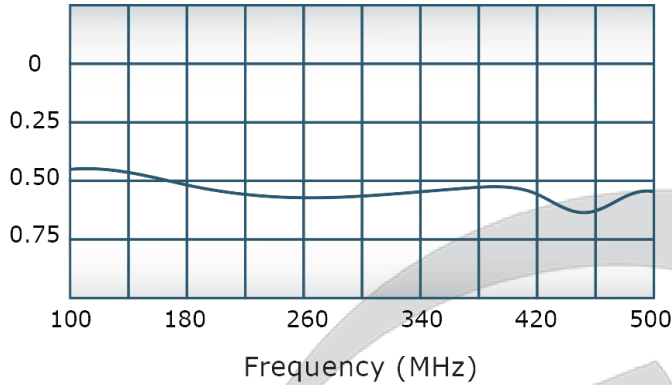
Model	Sum Port (J1)	0°, 180° (J2,J3)
H7450-10	N Female	N Female
H7450-12	N Female	SMA
H7450-102	SMA	SMA

**Werlatone's** standard line of High Power 180° RF Hybrid Combiners/Dividers covers multiple octaves within a microwave device. Low frequency 180° Hybrid Combiner/Dividers employ proprietary ferrite transmission line techniques, similar to our 0° Combiners/Dividers. Insertion loss in both sum and difference ports is minimal, allowing the hybrid to handle high power over its frequency range. Custom requirements are welcome.

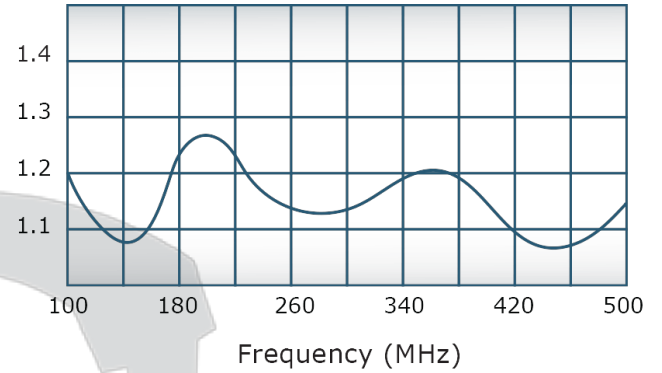


## Performance Data (Specifications subject to change without notice):

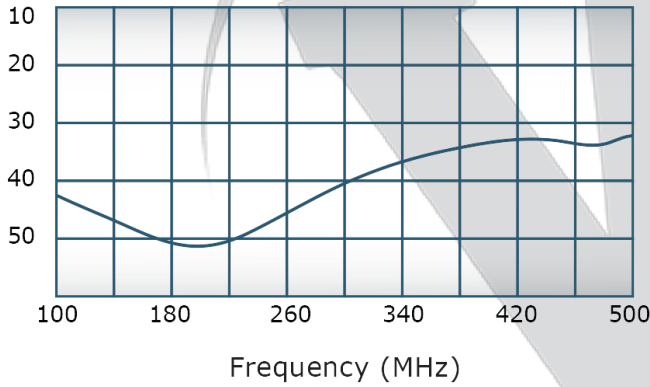
Insertion Loss:



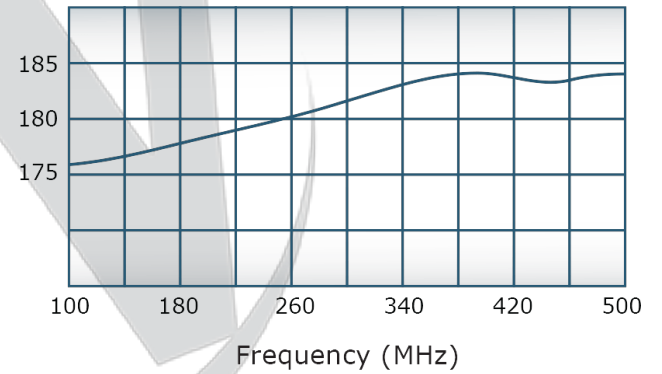
VSWR:



Isolation:



Phase Balance:

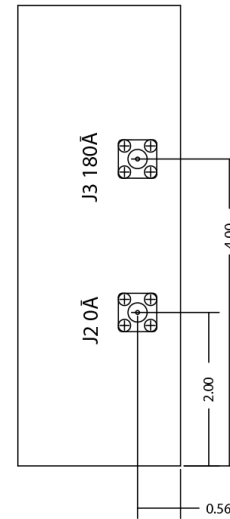
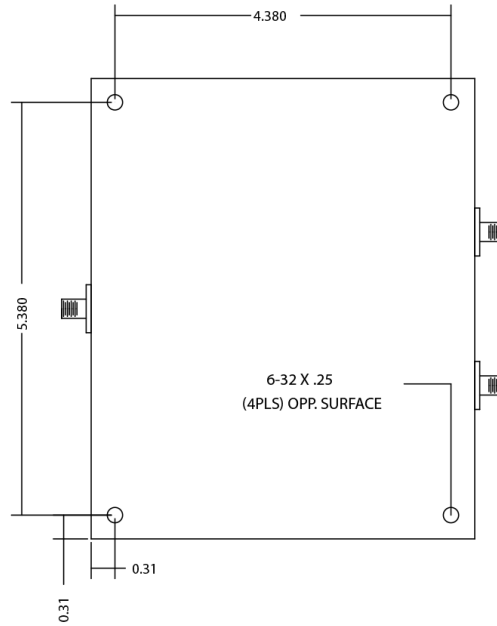
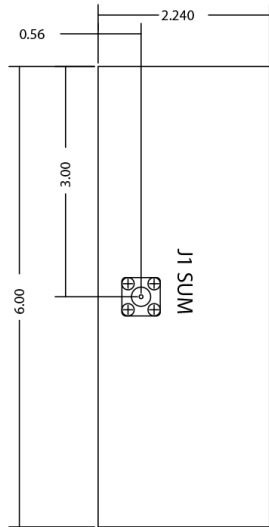


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DATE	SYM	REVISION RECORD	AUTH	DR	CK



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