



## PRODUCT DATA SHEET

H1484

**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: 2 - 32 MHz  
 Power: 500 W CW  
 Insertion Loss: 0.2 dB Max.  
 VSWR: 1.30:1 Max.  
 Phase Balance:  $180^\circ \pm 3^\circ$  Max.  
 Amplitude Balance:  $\pm 0.1$  dB Max.  
 Isolation: 25 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: 1.625 lbs.  
 Size: 5.0 x 3.0 x 2.25"

### Connector Configurations:

Model	Sum Port (J4)	Diff. Port (J2)	Inputs (J3, J4)
H2979-10	N Female	N Female	N Female
H2979-12	N Female	SMA	SMA
H2979-13	N Female	BNC	BNC
H2979-102	SMA	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.

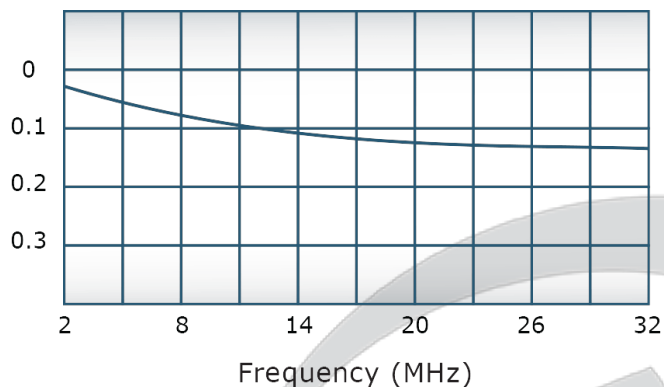


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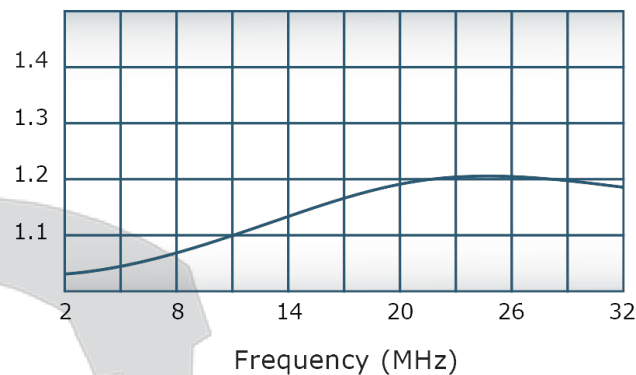
H1484

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

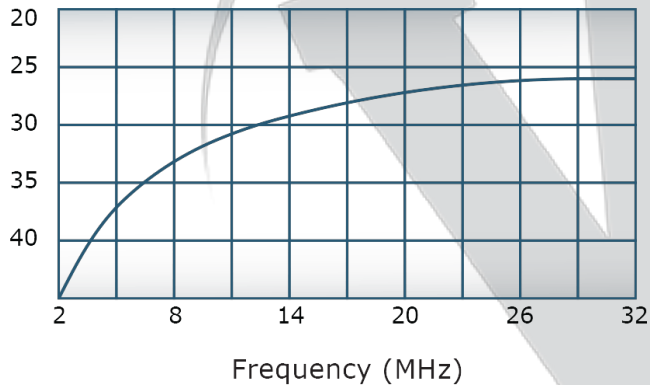
Insertion Loss:



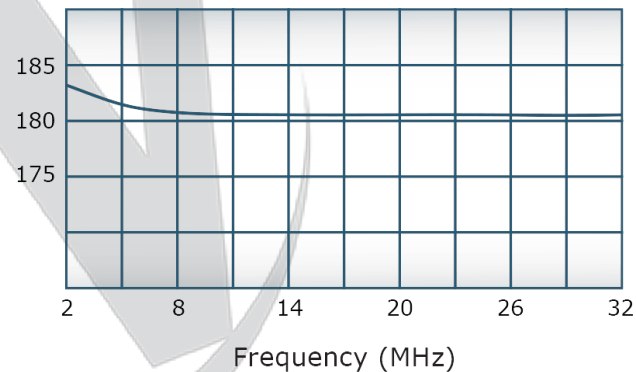
VSWR:



Isolation:



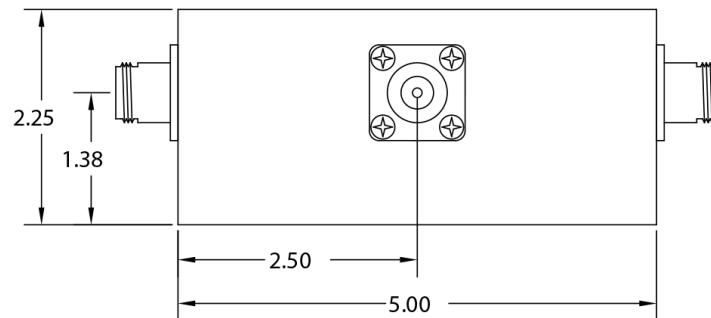
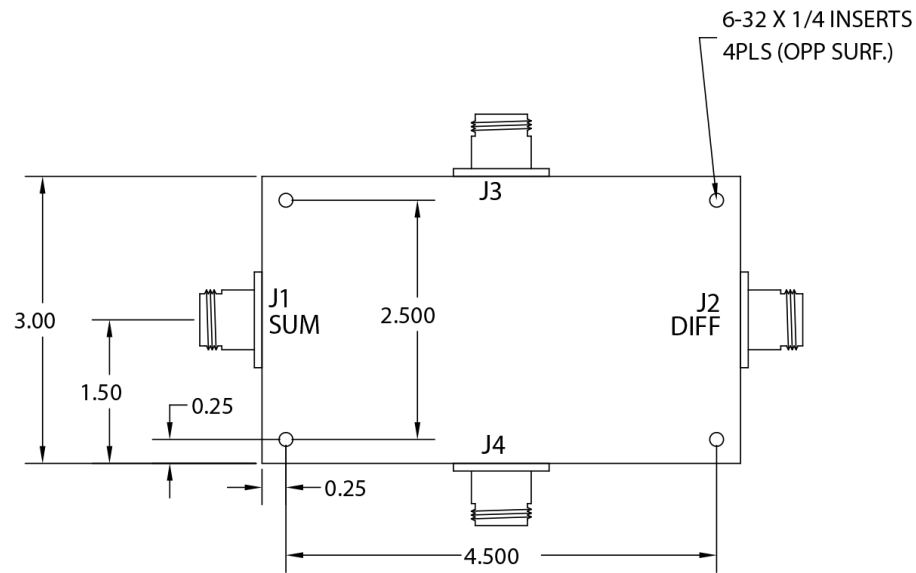
Phase Balance:



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DATE	SYM	REVISION RECORD	AUTH	DR	CK
7/92	-	INITIAL	DK		
7/92	REV.A	ECN:1185	DK		
6/14	REV.B	ECN8668	CS	PP	CS



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