



## PRODUCT DATA SHEET

H2979

**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:            0.3 - 100 MHz  
Power:                 100 W CW  
Insertion Loss:       1.0 dB Max.  
VSWR:                 1.50:1 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:                     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	N Female	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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

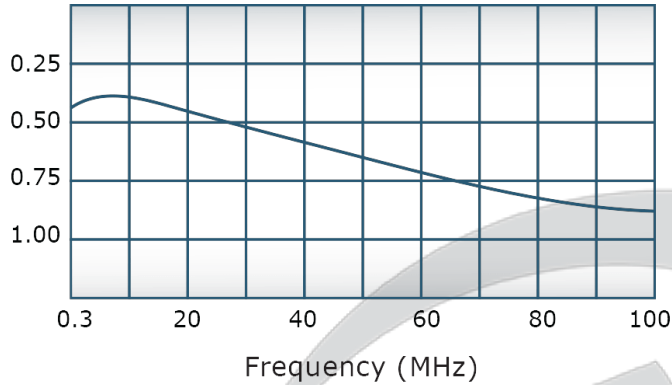


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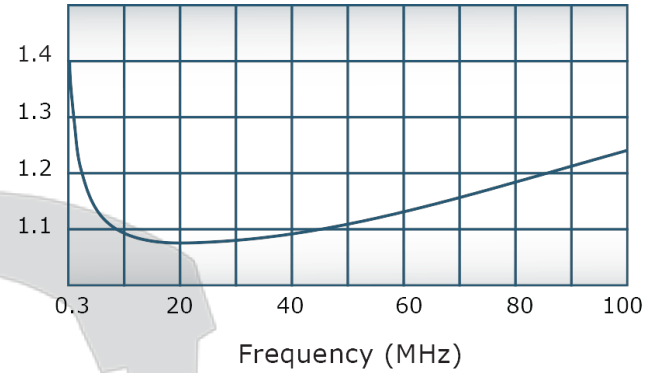
H2979

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

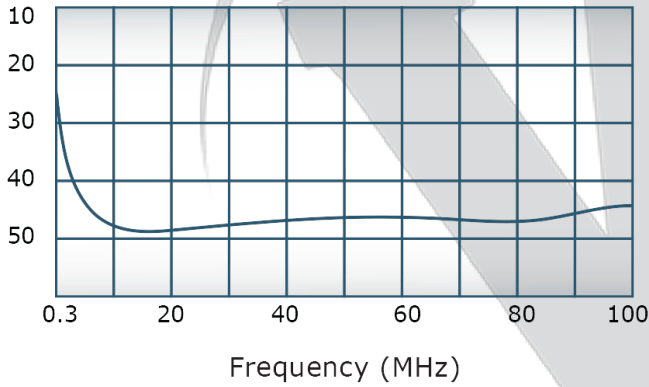
Insertion Loss:



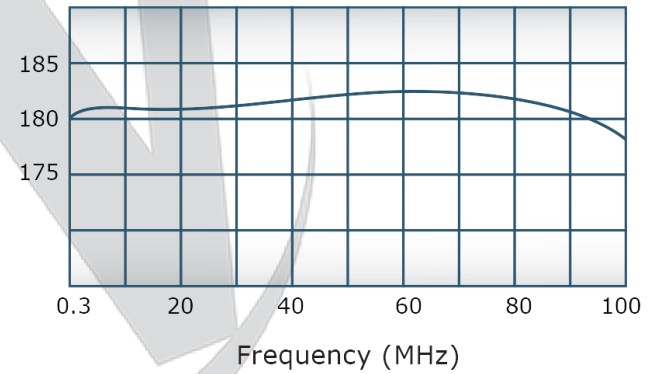
VSWR:



Isolation:



Phase Balance:



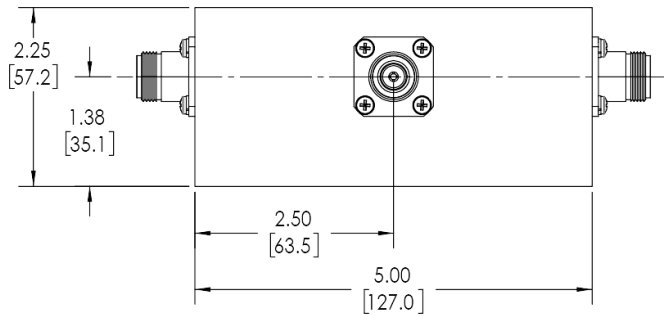
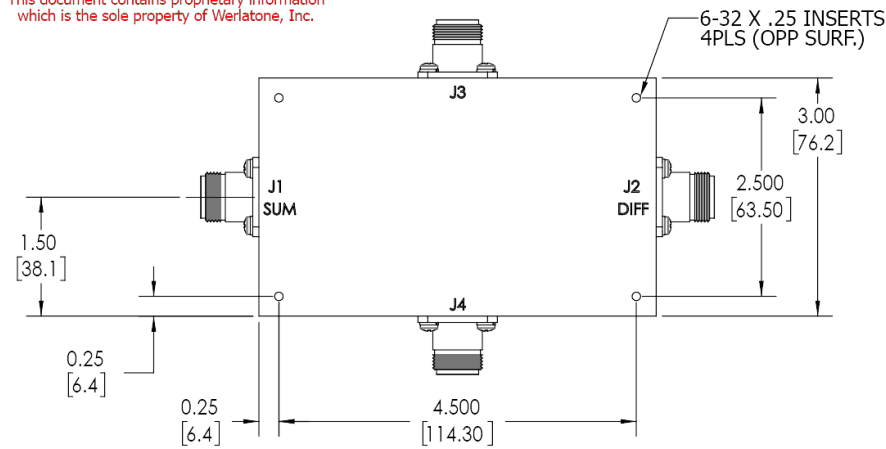
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 5376	5/6/11	PR
B	ECN 9696	11/25/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:  
J1-J4: N FEMALE**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE   SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	11/25/2019	CHK	
DIMENSIONS PER ASME Y14.5M-2009	CS	11/25/2019	ENGR	TITLE
PARENTHEetical INFO FOR REF ONLY	DATE			<b>OUTLINE</b> SIZE CAGE CODE DWG NO B 10135-500
DIMENSIONS ARE IN INCHES	DATE			
DIMENSIONAL LIMITS APPLY BEFORE FINISHES	DATE			B
TOLERANCES:	DATE			SHEET 1 OF 1
ANGLES = 2°	DATE			
3 PL ± .005 (.13)	DATE			
2 PL ± .015 (.38)	DATE			
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE			
CONCENTRICITY MACHINED DIA: .002 FIM	DATE			
MACHINE TOOL MISMATCH .003 FIM	DATE			
NEXT ASSY	USED ON	SCALE	SCALE	
APPLICATION	THIRD ANGLE PROJECTION	1:1.5		

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