



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: $180^\circ \pm 5^\circ$ 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.



WERLATONE

Model H2979

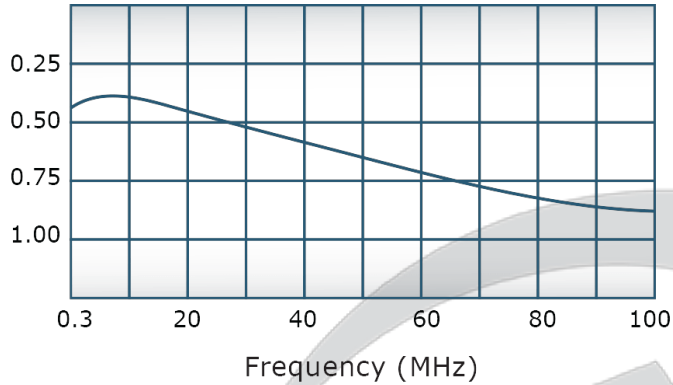


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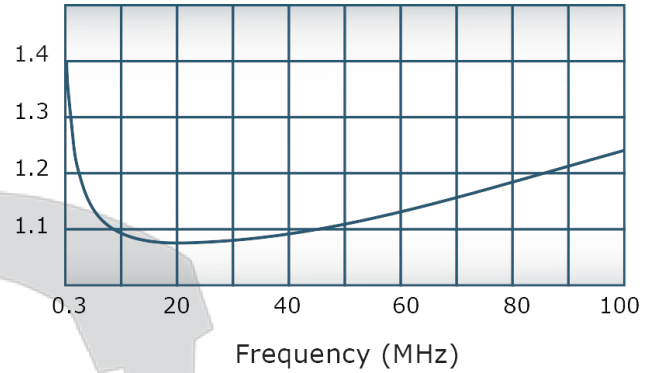
H2979

Performance Data (Specifications subject to change without notice):

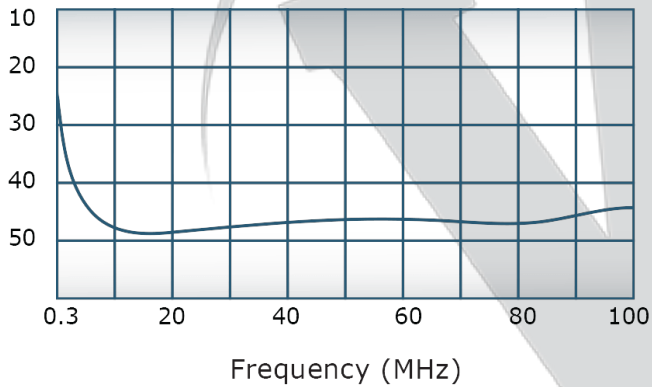
Insertion Loss:



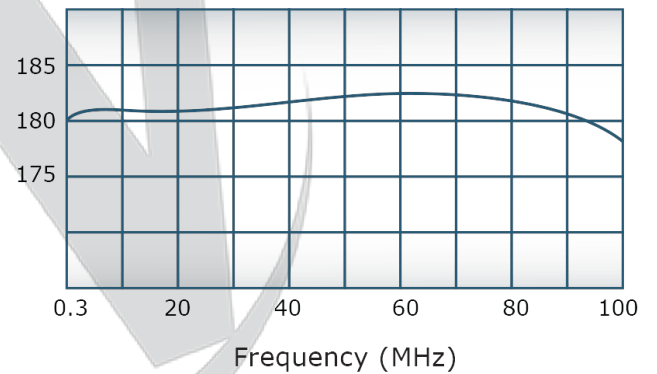
VSWR:



Isolation:



Phase Balance:



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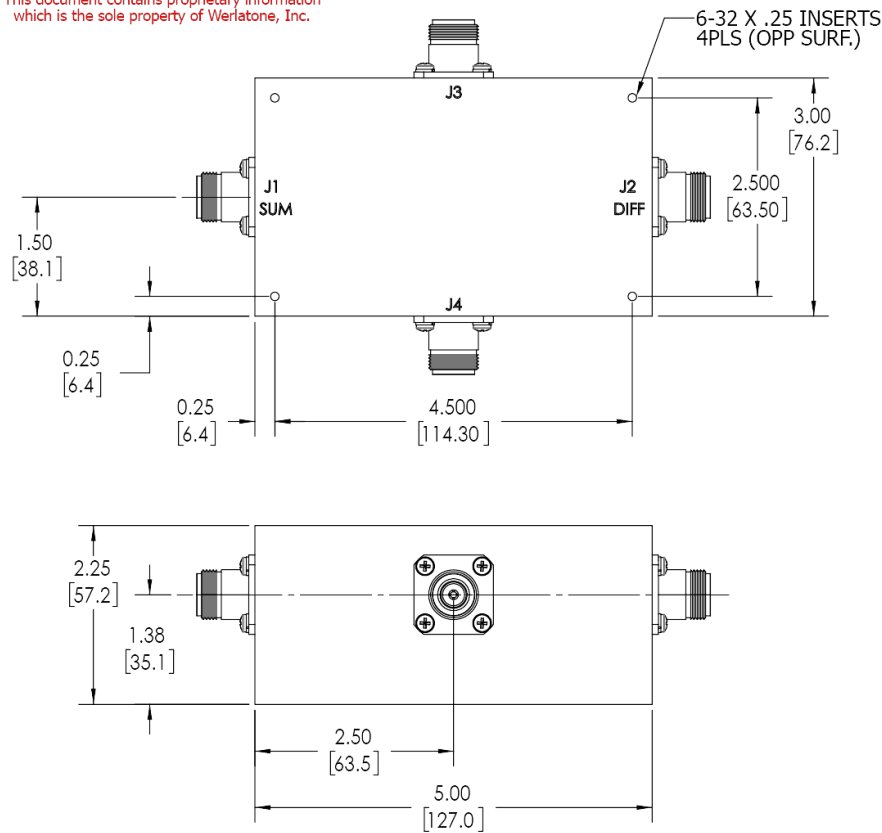
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REVISION HISTORY

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		SD	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		CHK	DATE	TITLE OUTLINE	
DIMENSIONS PER ASME Y14.5M-2009		CS	DATE		
PARENTHESES FOR REF ONLY		ENGR	DATE	SIZE	CAGE CODE
DIMENSIONS ARE IN INCHES		INFR	DATE	B	10135-500
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		QA	DATE	SCALE	REV
TOLERANCES:		RLSE	DATE	1:1.5	B
ANGLES ± 2°		THIRD ANGLE PROJECTION			
3 PL ± .005 [13]		SHEET 1 OF 1			
2 PL ± .015 [38]					
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY MACHINED DIA. .002 FIM					
MACHINE TOOL MISMATCH .003 FIM					

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