



PRODUCT DATA SHEET

H6152

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: 0.2 - 35 MHz
Power: 50 W CW
Insertion Loss: 0.3 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: ± 0.2 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: 0.25 lbs.
Size: 2.5 x 1.5 x 1.12"

Connector Configurations:

Model	Sum Port (J1)	Inputs (J3,J4)	Diff. Port (J2)
H6152-10	N Female	N Female	N Female
H6152-12	N Female	SMA	SMA
H6152-102	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 H6152
180° Hybrids Connectorized

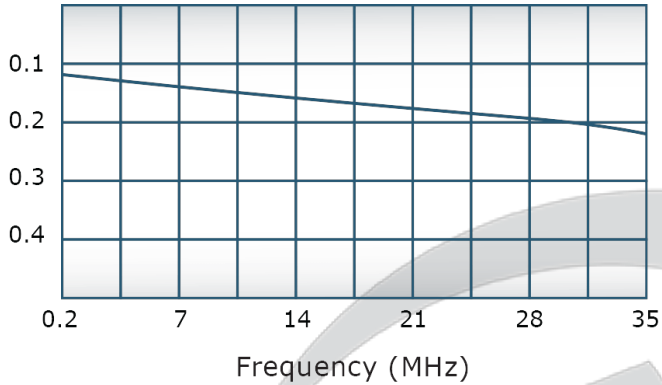


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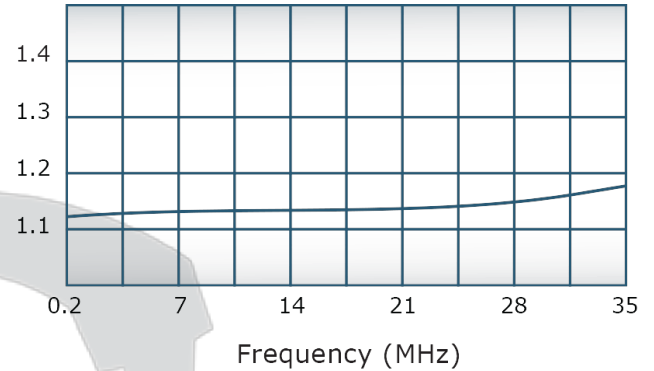
H6152

Performance Data (Specifications subject to change without notice):

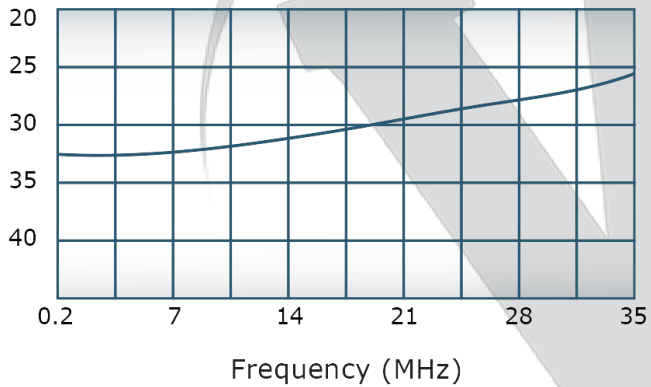
Insertion Loss:



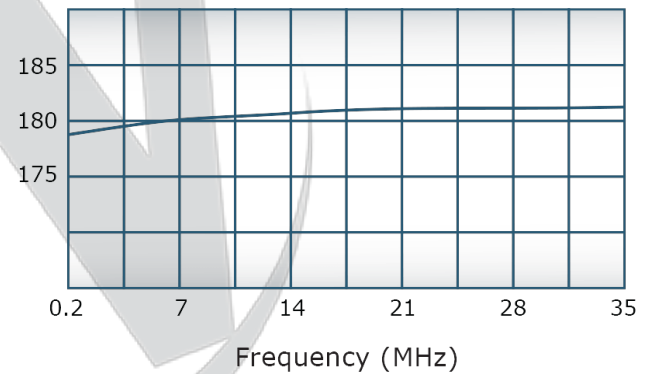
VSWR:



Isolation:



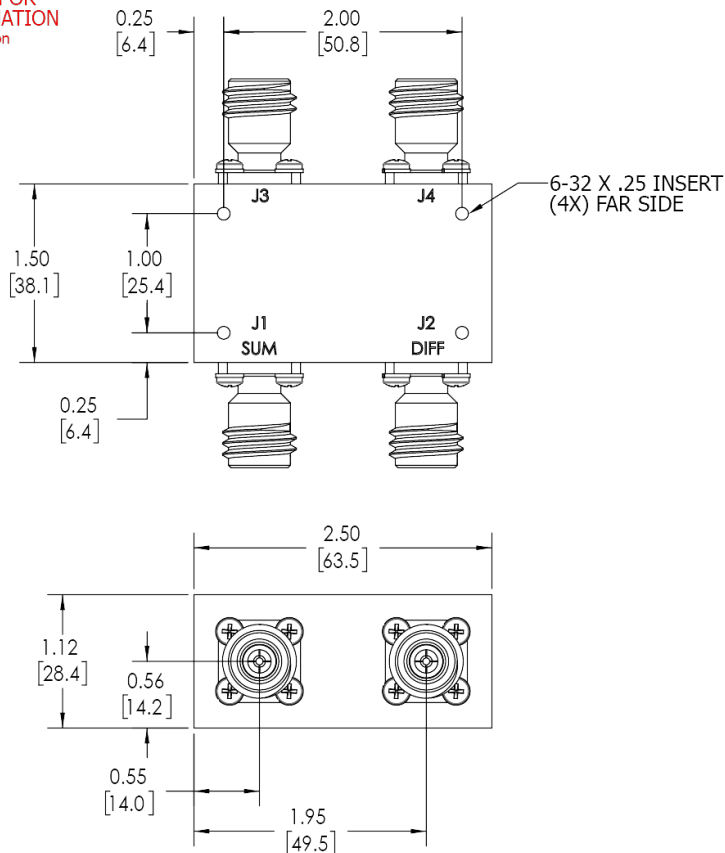
Phase Balance:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/25/2019	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 100 MIL-STD-100		SD	11/25/2019		
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE		
PARENTHESES FOR REF ONLY		CS	11/25/2019		
DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE OUTLINE SIZE CAGE CODE DWG NO 10665-500	REV A
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INPR	DATE		
TOLERANCES:		QA	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 FIM		RLSE	DATE		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SCALE: 1:1 SHEET 1 OF 1	
APPLICATION					

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