



PRODUCT DATA SHEET

H10253

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:	1000 - 3000 MHz
Power:	350 W CW
Insertion Loss:	0.55 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	180° \pm 7° Max.
Amplitude Balance:	\pm 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 (RoHS Compliant)
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	4.4 x 2.6 x 1.16"

Connector Configurations:

Model	Diff. Port (J1)	Inputs/Outputs (J2, J3)	Sum Ports (J4)
H10253-10	N Female	N Female	N Female

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 H10253

180° Hybrids Connectorized

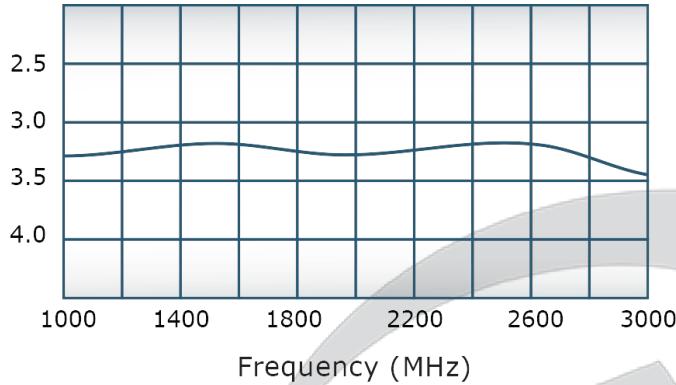


PRODUCT DATA SHEET

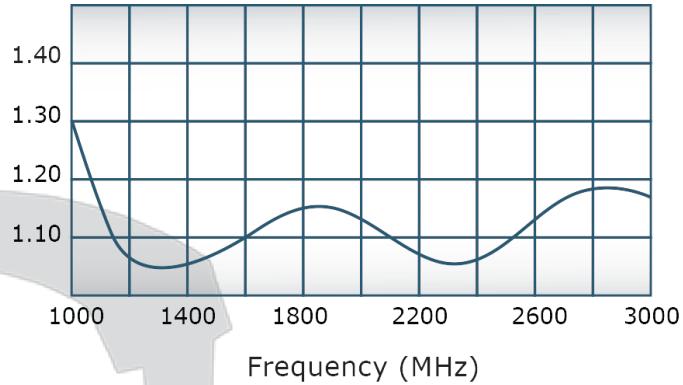
H10253

Performance Data (Specifications subject to change without notice):

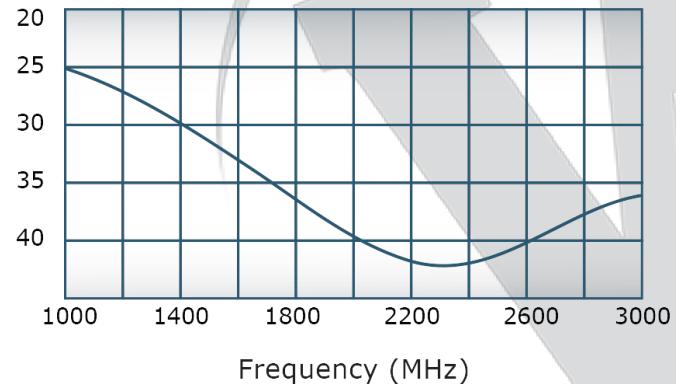
Coupling:



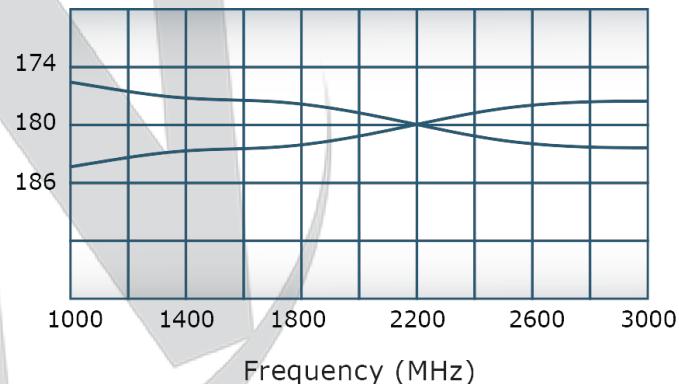
VSWR:



Insertion Loss:



Phase Balance:

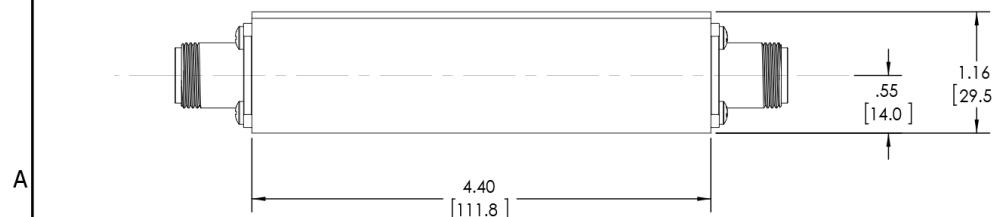
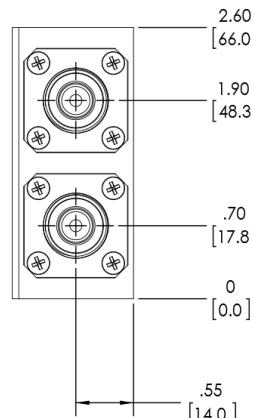
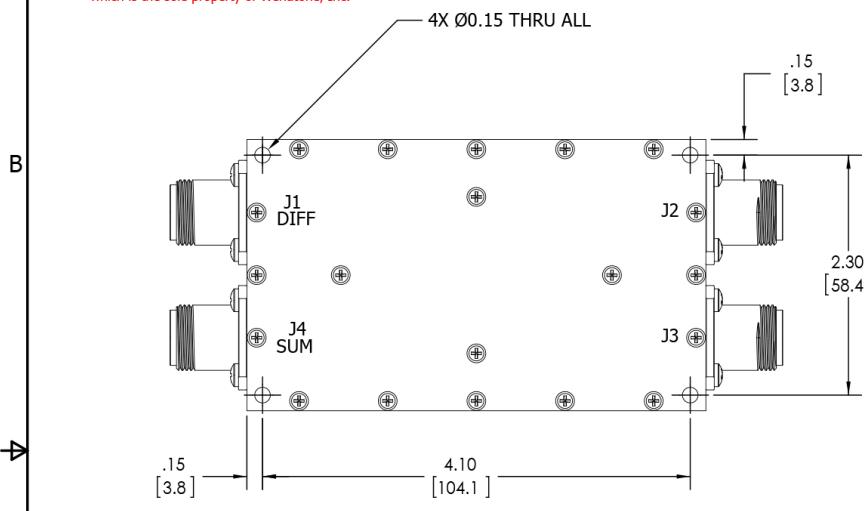


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UNLESS OTHERWISE SPECIFIED		PLN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERIM DRAWING JAW MD-STD-100		PLP	4/27/2015		
DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE		
ALL DIMENSIONS ARE IN INCHES (mm)		NH	4/27/2015		
ALL DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE		
ALL DIMENSIONS ARE IN INCHES (mm)		MFGR	DATE		
ALL DIMENSIONS ARE IN INCHES (mm)		QA	DATE		
ALL DIMENSIONS ARE IN INCHES (mm)		RLSE	DATE		
ANGLES ARE IN DEGREES 1R = 1.405 [35.6] 2R = 4.015 [102.4]					
REMOVED ALL EXCESSIVE FACES & EDGES 0.01 MAX CONCENTRICITY MACHINED DATA 0.002 MAX MACHINE TOOL MISMATCH .003 MAX					
NEXT ASSY H10253	USED ON				
APPLICATION					
THIRD ANGLE PROJECTION					
SIZE		CAGE CODE	DWG NO	REV	
B 28812		21224-502		A	
SCALE		1:1			
SHEET 1 OF 1					

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