
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° ± 7° 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 (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.

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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

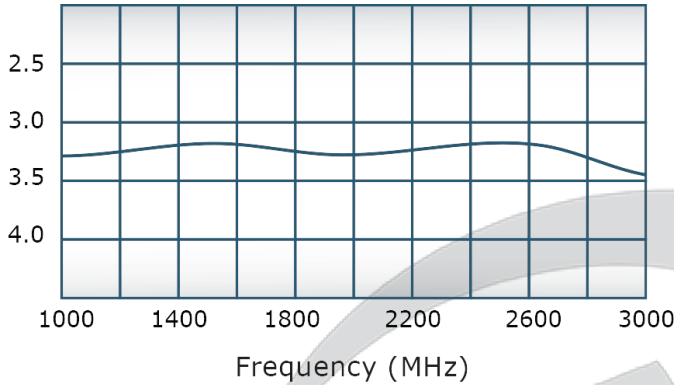


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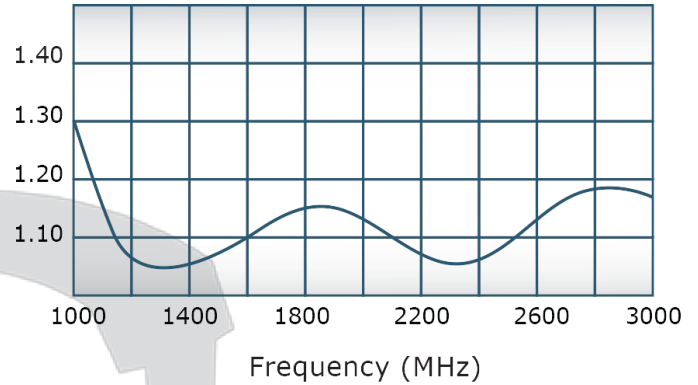
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Performance Data (Specifications subject to change without notice):

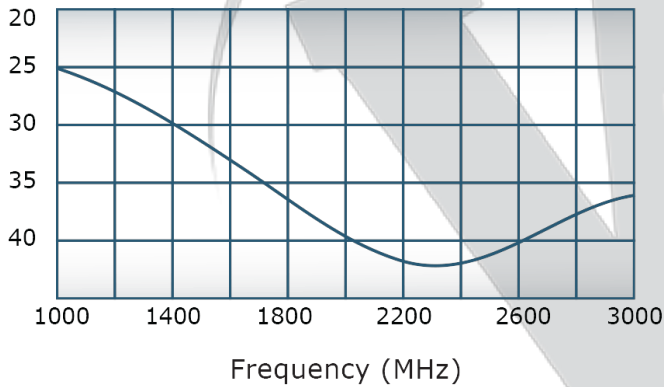
Coupling:



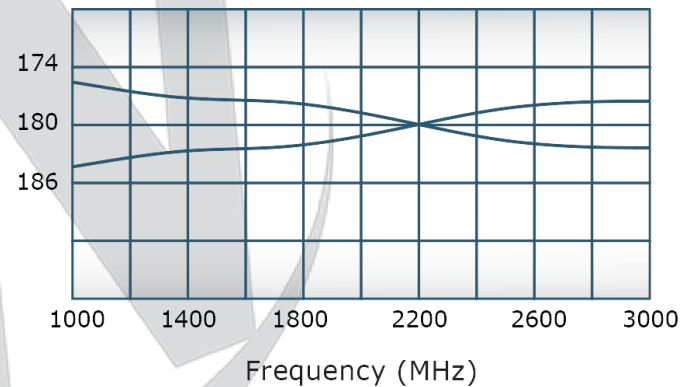
VSWR:



Insertion Loss:



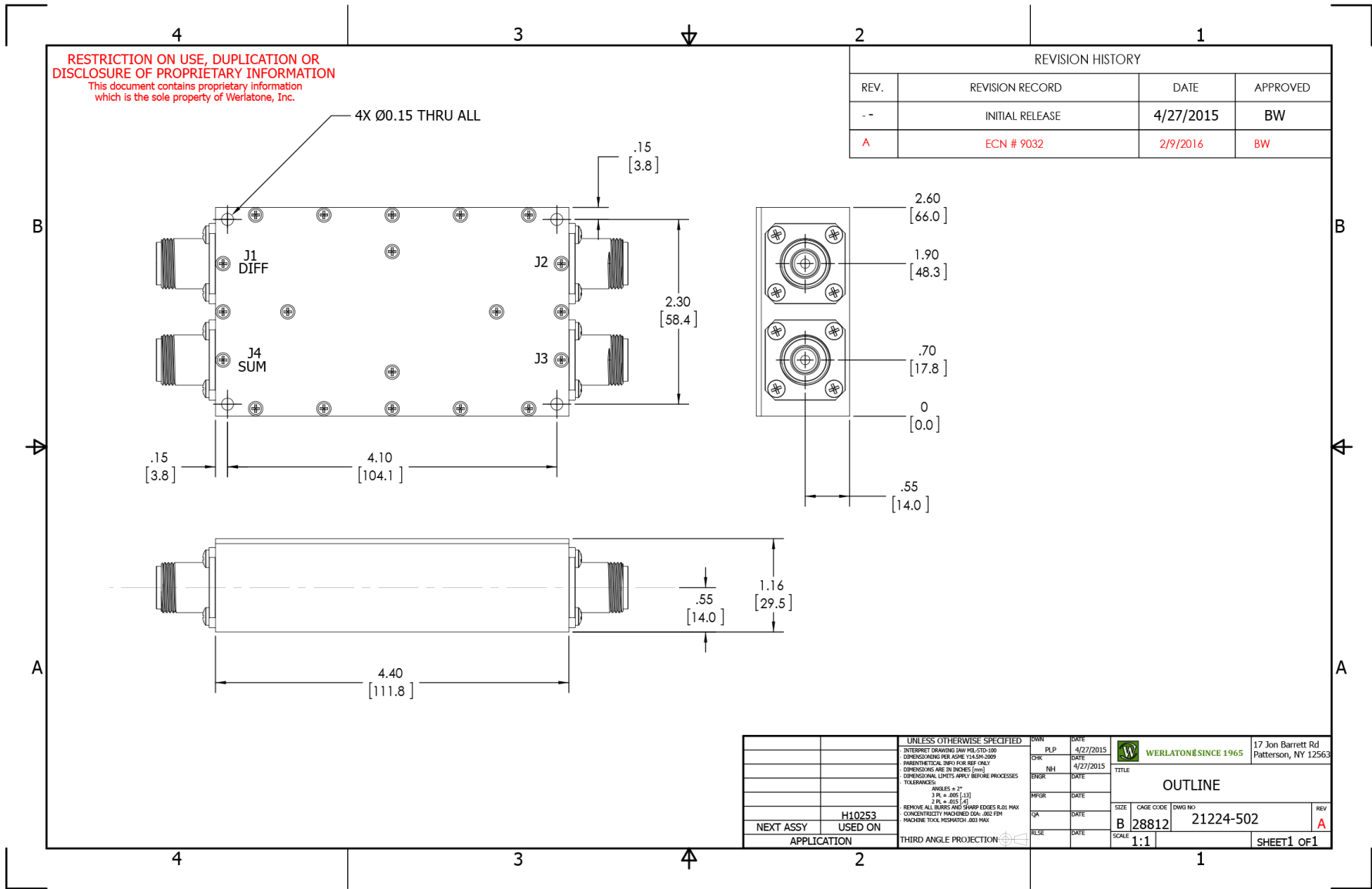
Phase Balance:



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UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING PER MIL-STD-100		PLP	4/27/2015	
DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	OUTLINE
PARENTHOSES ARE FOR REF ONLY		NH	4/27/2015	
DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE	SIZE CAGE CODE DWG NO B 28812 21224-502
DIMENSIONAL LINES APPLY BEFORE PROCESSES		MPGR	DATE	
TOLERANCES:		QA	DATE	SCALE 1:1
ANGLES = 3°		RELE	DATE	
3 RL ± .006 [13]				SHEET 1 OF 1
2 RL ± .015 [38]				
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
CONCENTRICITY FRACTURED DIA: .002 FPM				
MACHINE TOOL MISMATCH: .003 MAX				
THIRD ANGLE PROJECTION				
NEXT ASSY USED ON APPLICATION				

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