



## 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:  $180^\circ \pm 7^\circ$  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

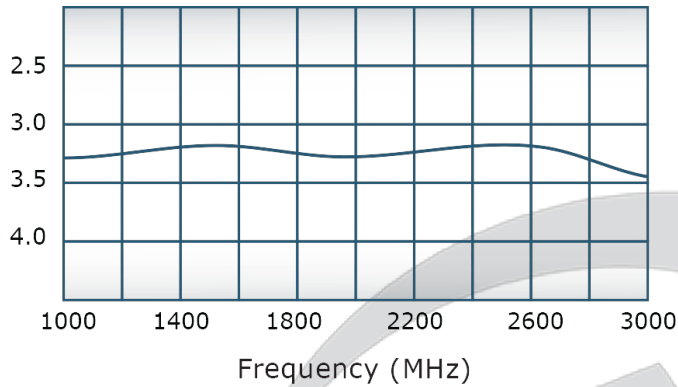


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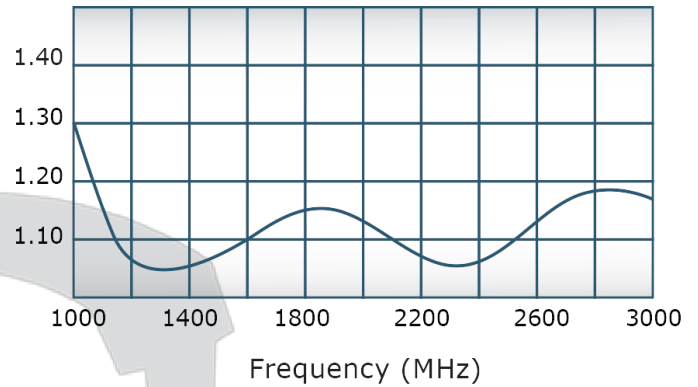
H10253

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

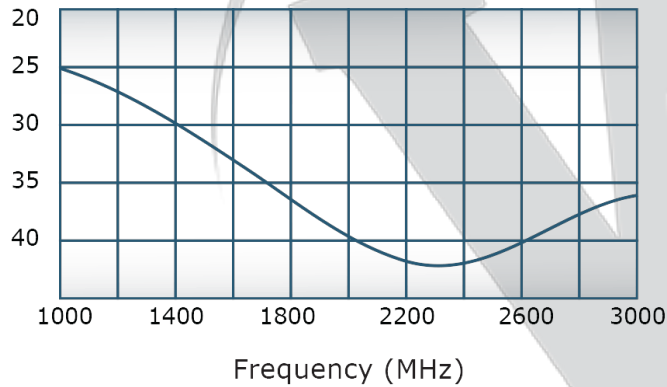
Coupling:



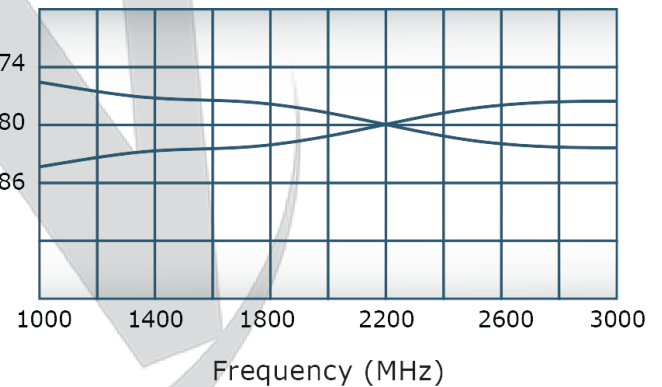
VSWR:



Insertion Loss:

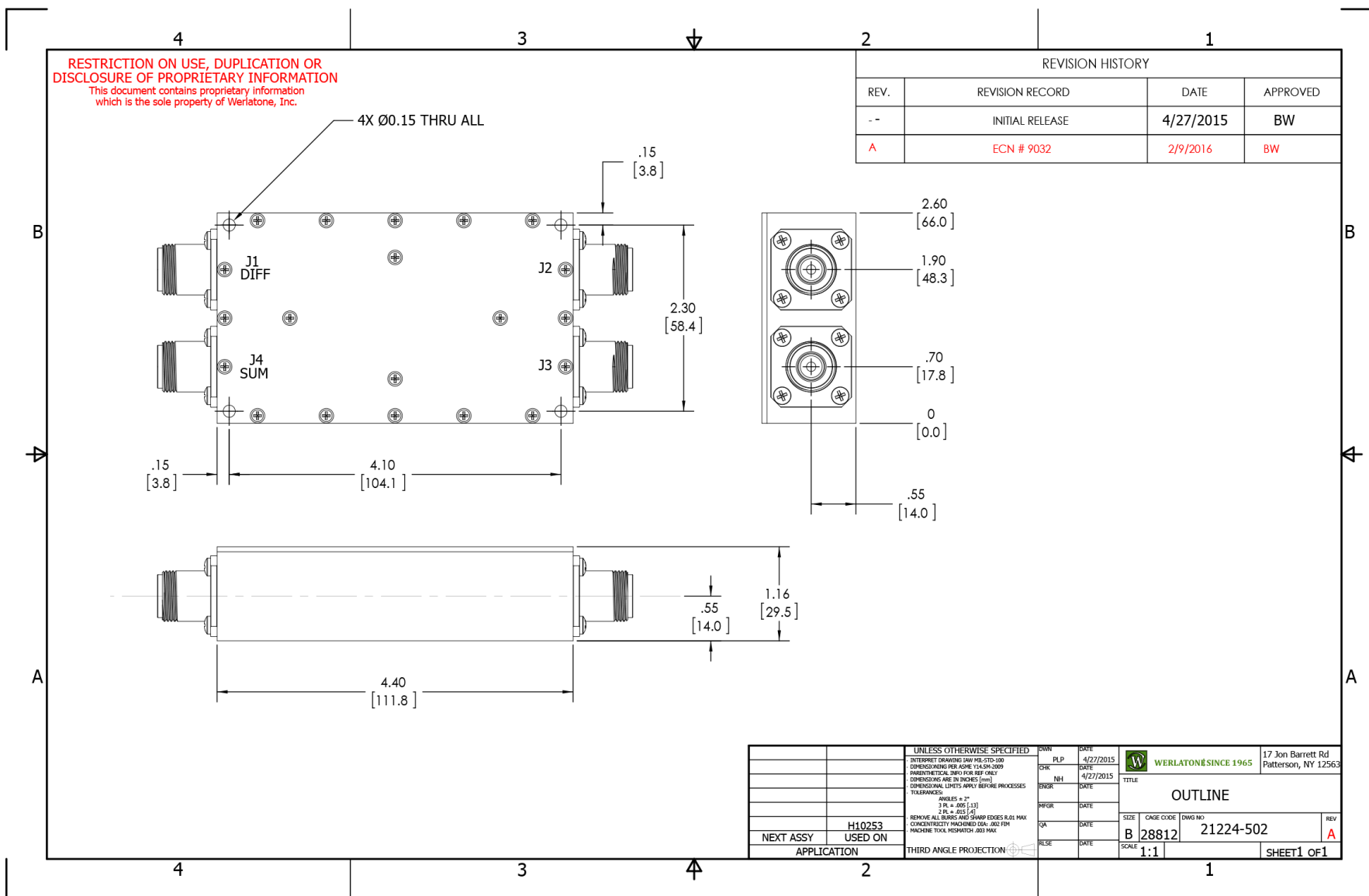


Phase Balance:



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