

PRODUCT DATA SHEET

H9331

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: 350 - 1000 MHz
Power: 150 W CW
Insertion Loss: 0.3 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: 180° ± 7° Max.
Amplitude Balance: ± 0.4 dB Max.
Isolation: 18 dB Min.

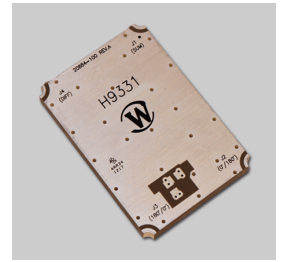
Mechanical Specifications:

Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F Type II Class 3 (RoHS Compliant)
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Size: 1.8 x 2.6 x 0.28"

Port Configurations:

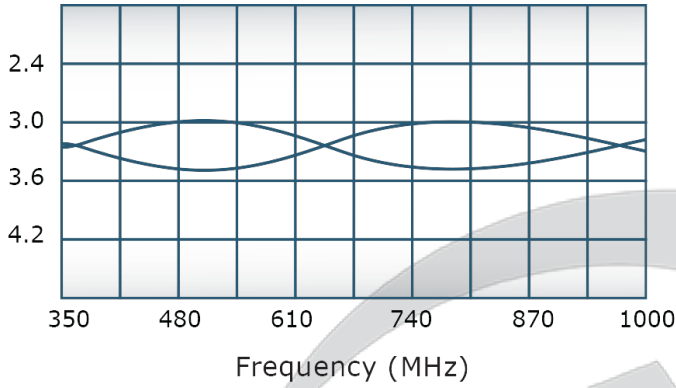
Table with 4 columns: Model, J1, J2, J3, J4. Row 1: H9792-10, Sum Port, 0°, 180°, Diff. Port

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.

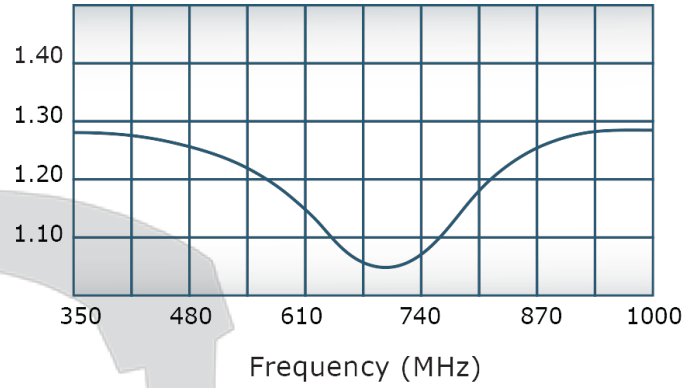


Performance Data (Specifications subject to change without notice):

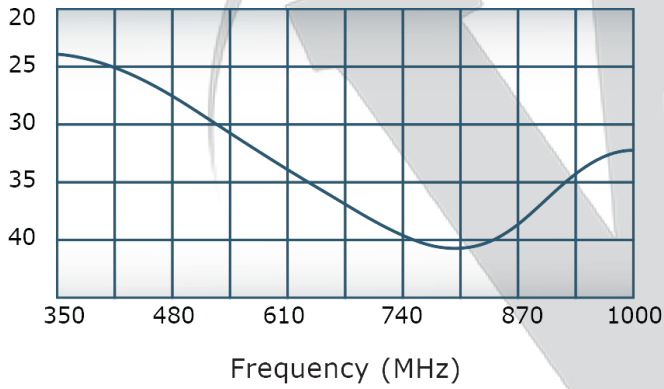
Coupling:



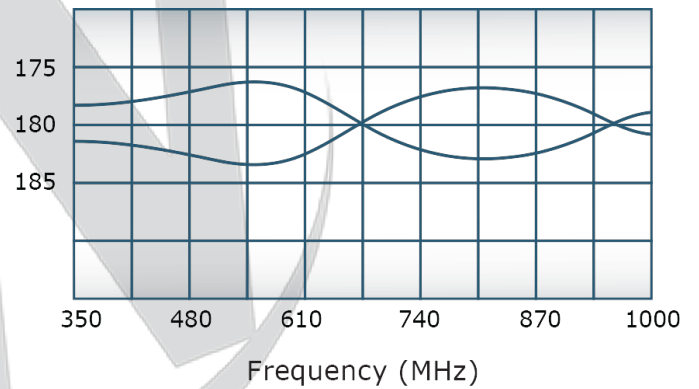
VSWR:



Isolation:



Phase Balance:

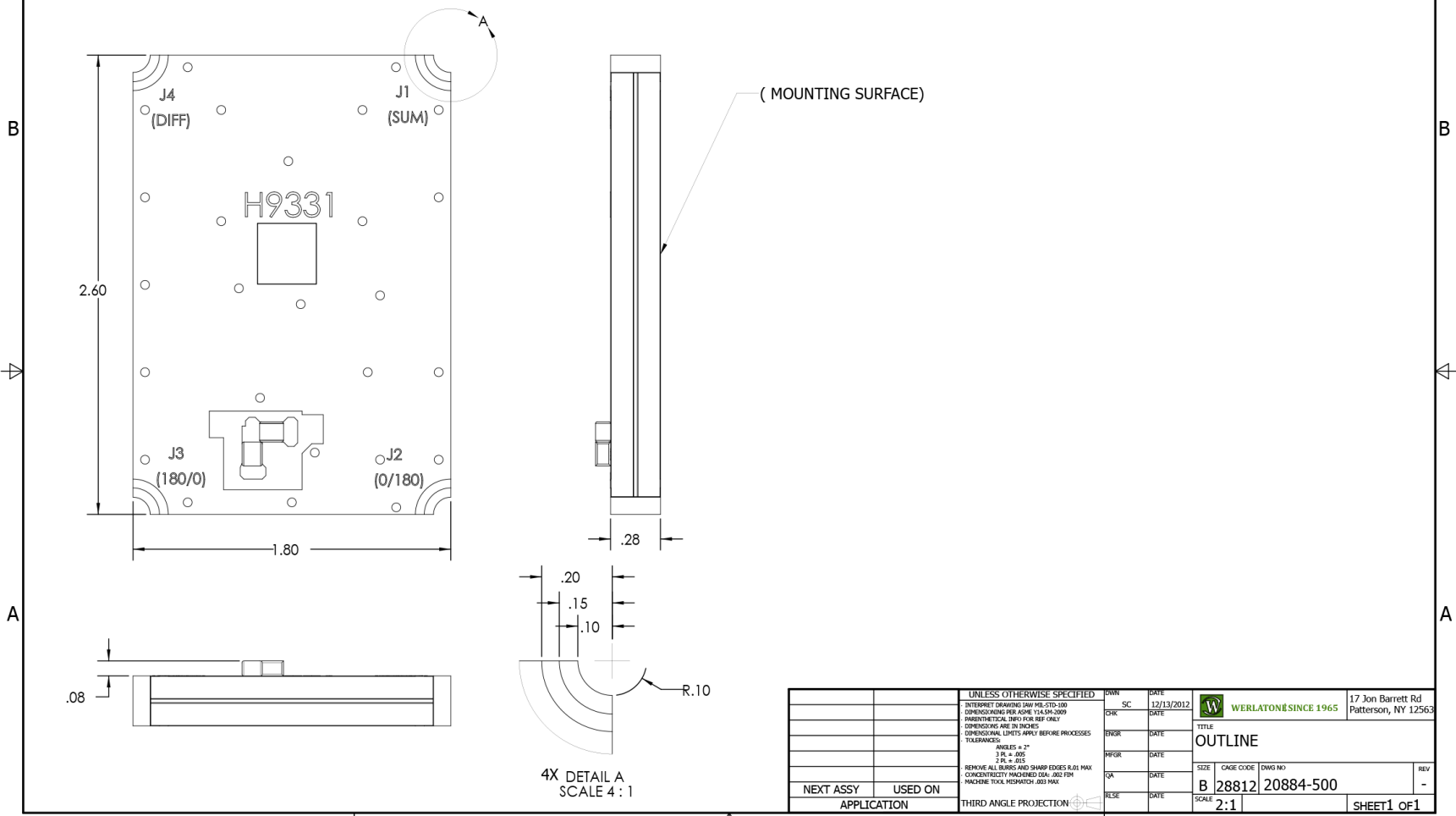


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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED



4X DETAIL A
SCALE 4:1

UNLESS OTHERWISE SPECIFIED		DATE	12/13/2012	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	DATE	CHK	SC	WERLATONE SINCE 1965
DIMENSIONS ARE IN INCHES	DATE	ENG	DATE	
DIMENSIONS ARE IN INCHES	DATE	DATE	DATE	TITLE
DIMENSIONAL UNITS APPLY BEFORE PROCESSES	DATE	DATE	DATE	OUTLINE
TOLERANCES:	DATE	DATE	DATE	SIZE
ANGLES = 3°	DATE	DATE	DATE	CAGE CODE
3 PL ± .005	DATE	DATE	DATE	DWG NO
2 PL ± .015	DATE	DATE	DATE	B 28812 20884-500
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE	DATE	DATE	REV
CONCENTRICITY MAXIMUM .002 FPM	DATE	DATE	DATE	-
MACHINE TOOL MESHATCH .003 MAX	DATE	DATE	DATE	SCALE
THIRD ANGLE PROJECTION	DATE	DATE	DATE	2:1
NEXT ASSY	USED ON	DATE	DATE	SHEET 1 OF 1
APPLICATION	DATE	DATE	DATE	

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