

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.

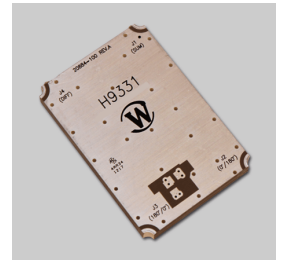
Mechanical Specifications:

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:

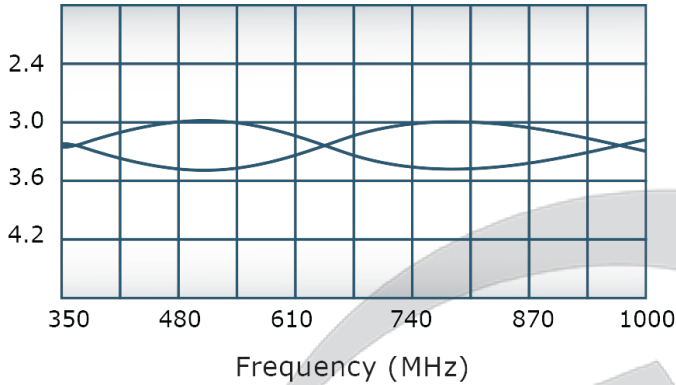
Model	J1	J2, J3	J4
H7972-10	Sum Port	0°, 180°	Diff. Port

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.

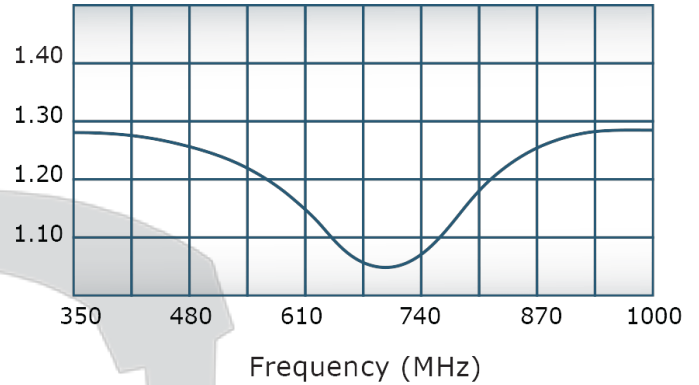


Performance Data (Specifications subject to change without notice):

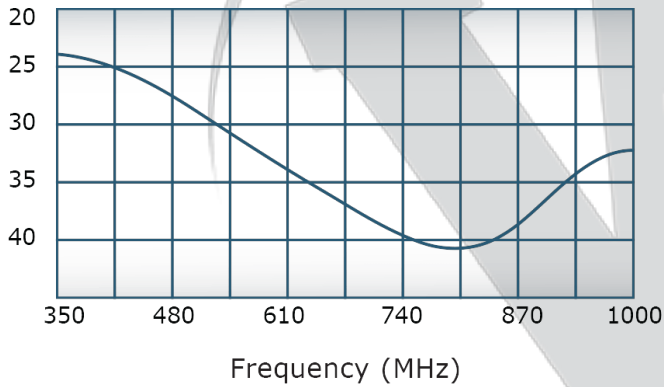
Coupling:



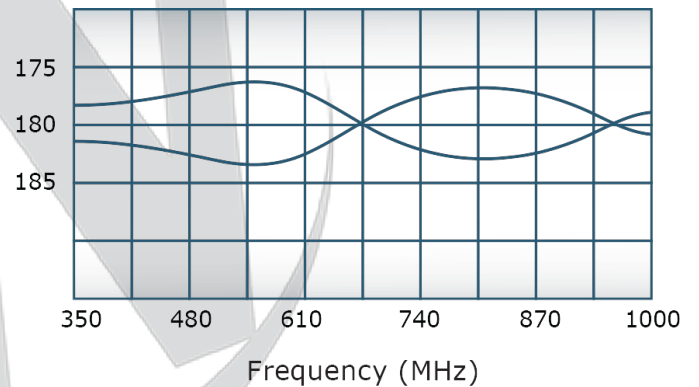
VSWR:



Isolation:



Phase Balance:

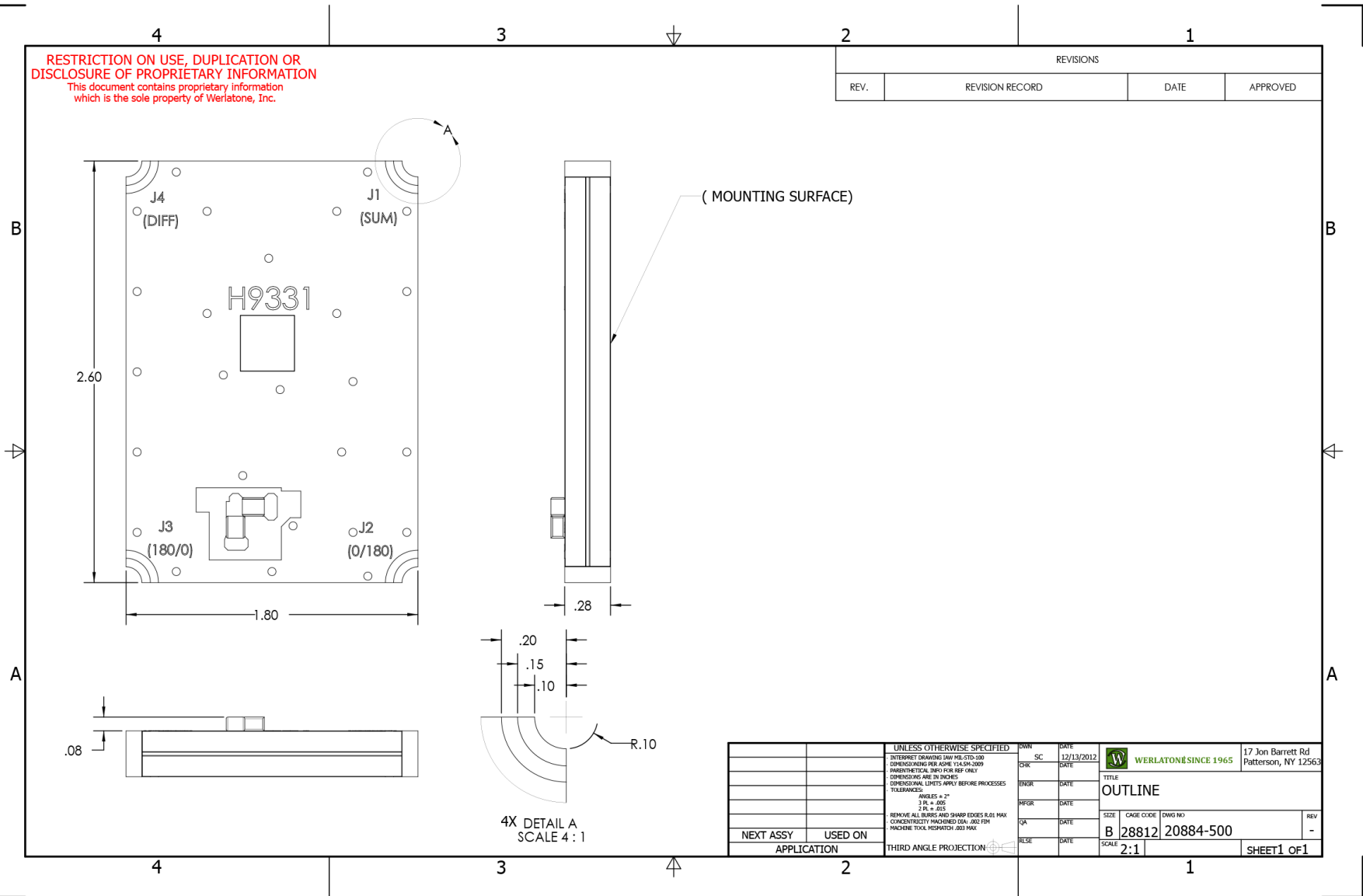


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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED



4X DETAIL A
 SCALE 4:1

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

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