

PRODUCT DATA SHEET

H10125

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:	0.5 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	180° \pm 7° Max.
Amplitude Balance:	\pm 0.3 dB Max.
Isolation:	20 dB Min.

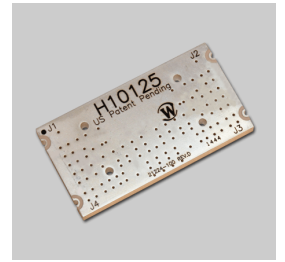
Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type II Class 3 (RoHS Compliant)
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	2.31 x 1.21 x 0.25"

Port Configurations:

Model	J1	J4	J2 & J3
H10125-Ag	Difference Port	Sum Port	Input Ports

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.

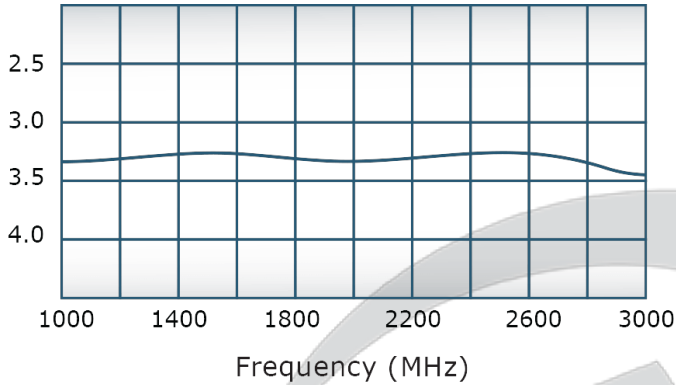


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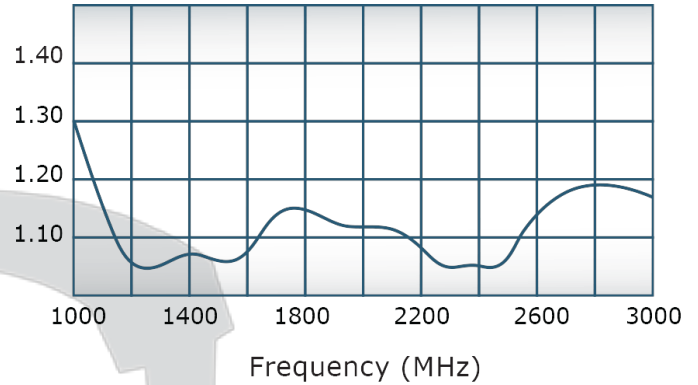
H10125

Performance Data (Specifications subject to change without notice):

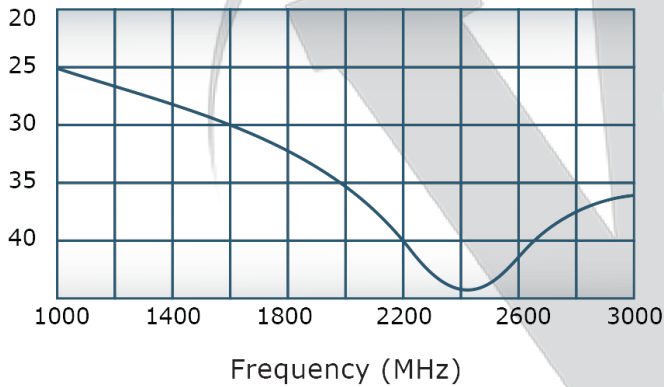
Coupling:



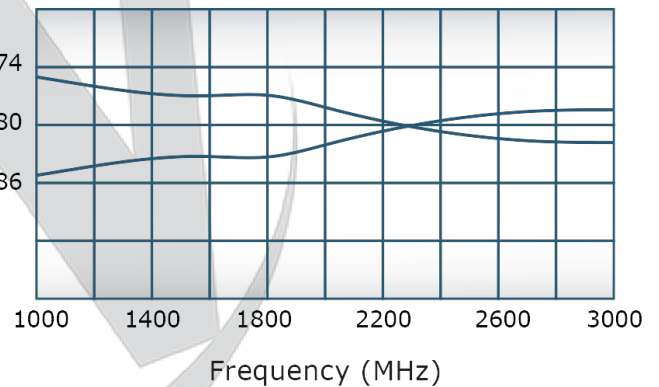
VSWR:



Isolation:



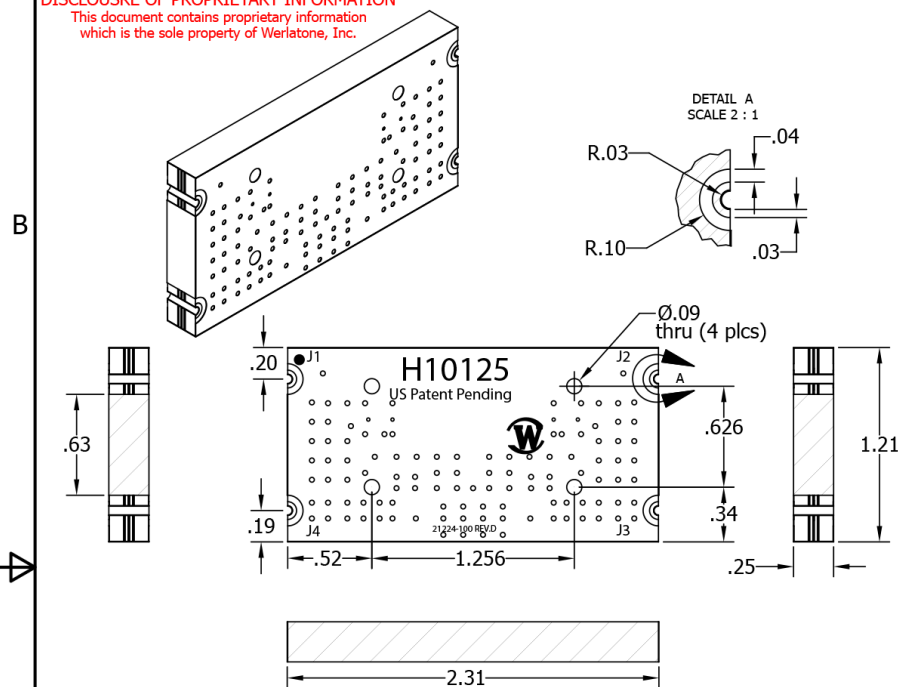
Phase Balance:



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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	8/21/2014	BW
A	ECN # 9030	2/9/2016	BW

ELECTRICAL SPECIFICATIONS

(180 deg Hybrid Combiner /Divider)


Frequency: 1000 - 3000 MHz
Power: 350 Watts CW
Insertion Loss: 0.50 dB Max.; 0.4 dB typ.
Amplitude Balance: ± 0.2 dB Max.
Phase Balance: $\pm 7^\circ$ Max.
VSWR: 1.35:1
Isolation: 20 dB Min.
Operating Temperature: -55°C To +85°C

21224-100	H10125
NEXT ASSY	USED ON
APPLICATION	

- UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
 - DIMENSIONING PER ASME Y14.5M-2009
 - PARENTHEetical INFO FOR REF ONLY
 - DIMENSIONS ARE IN INCHES
 - DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 - TOLERANCES: ANGLES $\pm 2^\circ$
3 PL $\pm .005$
2 PL $\pm .015$

THIRD ANGLE PROJECTION

DWN	DATE
NH	08/21/14
CHK	DATE
BW	08/21/14
ENGR	DATE
NH	08/21/14
MFGR	DATE
QA	DATE
RLSE	DATE

 WERLATONE SINCE 1965			17 Jon Barrett Rd Patterson, NY 12563	
TITLE				
Outline				
SIZE	CAGE CODE	DWG NO		REV
A	28812	21224-500		A
SCALE	1:1	SHEET 1 OF 1		

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