
**PRODUCT DATA SHEET**
**H10126**

**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:	2000 - 6000 MHz
Power:	100 W CW
Insertion Loss:	0.8 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	180° ± 7° Max.
Amplitude Balance:	± 0.4 dB Max.
Isolation:	20 dB Min.

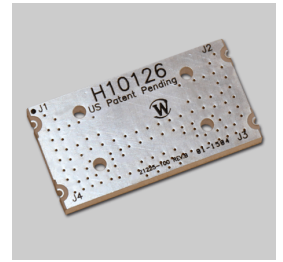
**Mechanical Specifications:**

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:	1.15 x 0.6 x 0.14"

**Port Configurations:**

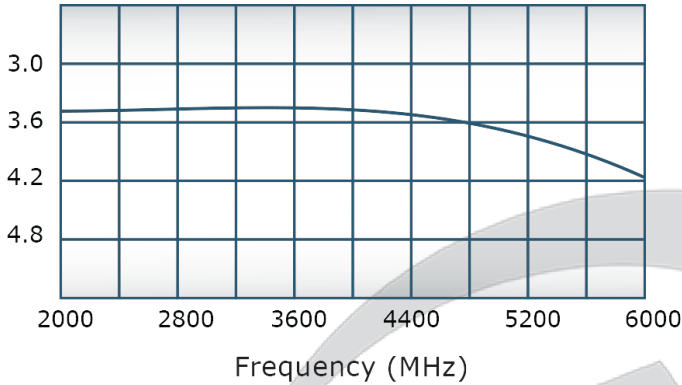
<b>Model</b>	<b>J1</b>	<b>J2, J3</b>	<b>J4</b>
H10126	Difference Port	Input Ports	Sum Port

**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.

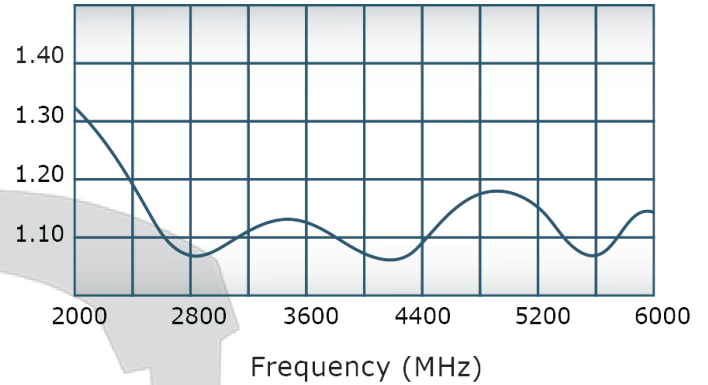


## Performance Data (Specifications subject to change without notice):

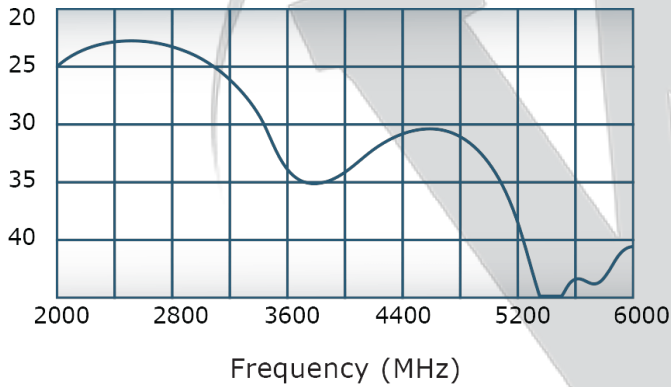
Coupling:



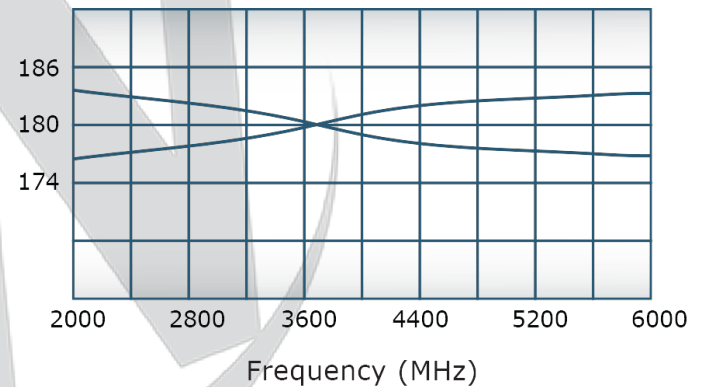
VSWR:



Isolation:



Phase Balance:

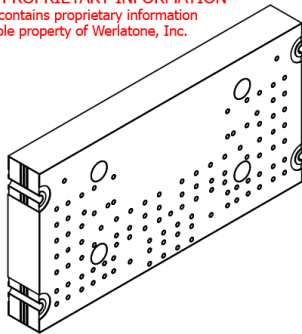


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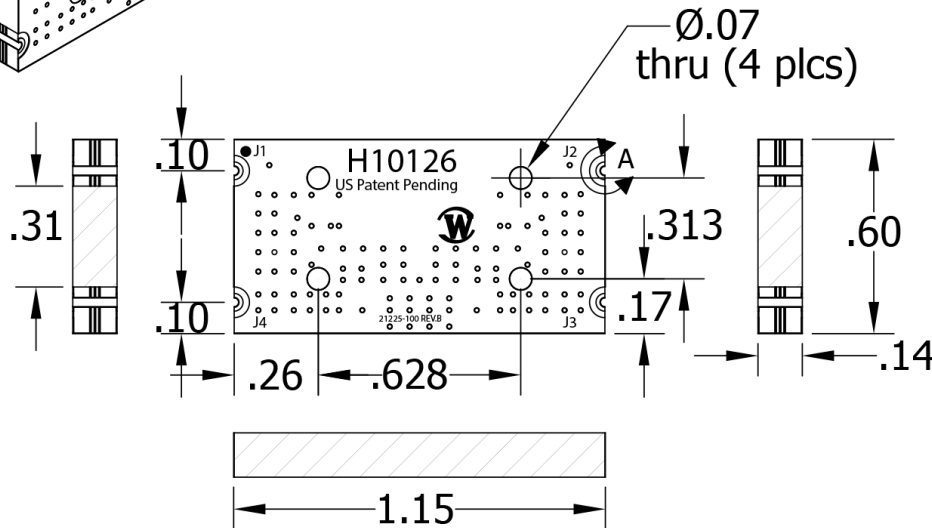
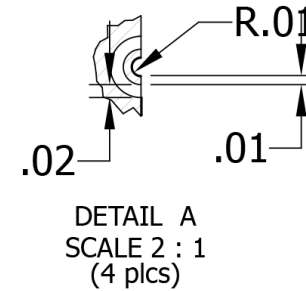
Werlatone, Inc.

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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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	10/22/2014	BW
A	ECN 9029	2/9/2016	BW



21225-100	H10126
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED  
 • INTERPRET DRAWING LAW MIL-STD-100  
 • DIMENSIONING PER ASME Y14.5M-2009  
 • PARENTHESES FOR REF ONLY  
 • DIMENSIONS ARE IN INCHES  
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES  
 • TOLERANCES: ANGLES ± 2°  
 3 PL ± .005  
 2 PL ± .015

THIRD ANGLE PROJECTION

DWN	DATE	<b>WERLATONE   SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563	
NH	10/22/14			
CHK	DATE	TITLE		
BW	10/22/14			
ENGR	DATE	<b>Outline</b>		
NH	10/22/14			
MFGR	DATE	SIZE	CAGE CODE	DWG NO
QA	DATE	A	28812	21225-500
RLSE	DATE	SCALE	REV	
		2:1	A	
			SHEET 1 OF 1	

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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