WERLATONE

Model H7815

PRODUCT DATA SHEET **H7815**

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:	30 - 512 MHz
Power:	20 W CW
Insertion Loss:	0.8 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	180° ± 5° Max.
Amplitude Balance:	± 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 (Yellow Iridite) RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Weight:	1.5 lbs.
Size:	4.0 x 2.2 x 1.1''

Connector Configurations:

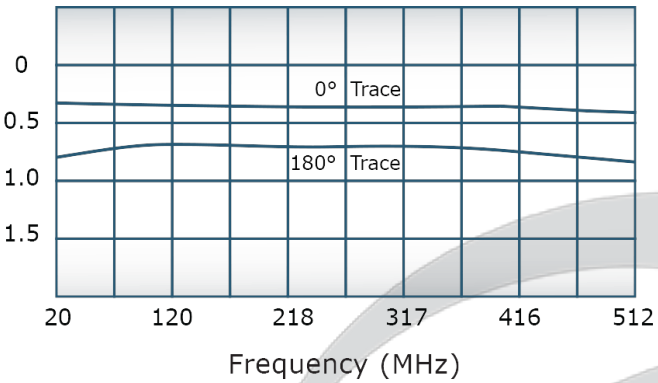
Model	**Sum Port (J1)**	**0°, 180° (J2,J3)**
H7815-10	N Female	N Female
H7815-12	N Female	SMA
H7815-13	N Female	BNC

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.

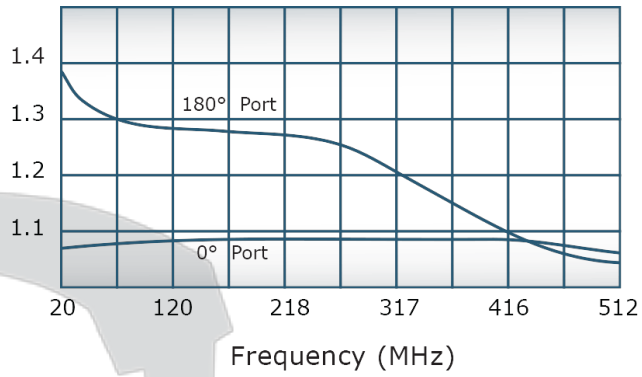
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Performance Data (Specifications subject to change without notice):

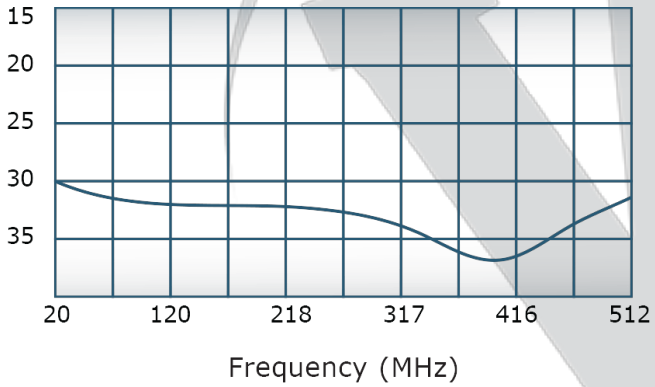
Insertion Loss:



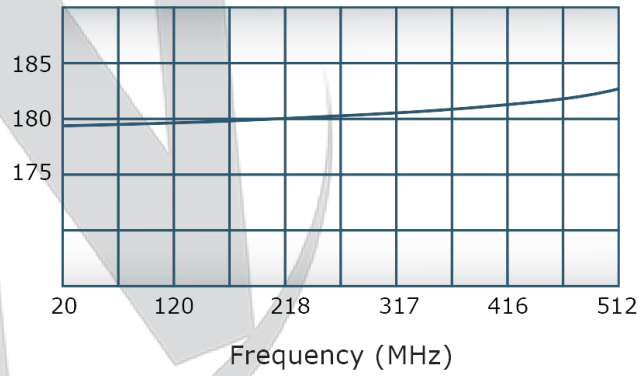
VSWR:



Isolation:



Phase Balance:



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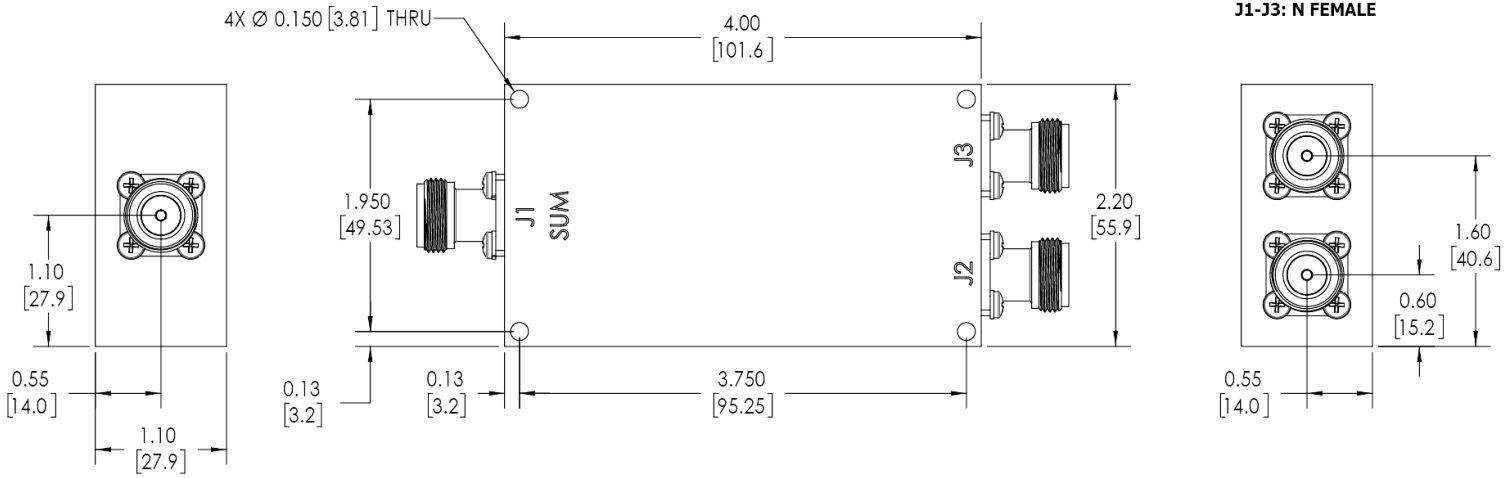
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	12/2/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED
1. **MATERIAL: ALUMINUM 6061-T6**
2. **FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
3. **CONNECTORS:**
   J1-J3: N FEMALE



NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED: INTERPRET DRAWING IAW MIL-STD-100. DIMENSIONING PER ASME Y14.5M-2009. PARENTHETICAL INFO FOR REF ONLY. DIMENSIONS ARE IN INCHES. DIMENSIONAL LIMITS APPLY BEFORE PROCESSES. TOLERANCES: ANGLES ± 2°; 3 PL ± .005 [.13]; 2 PL ± .015 [.38]. REMOVE ALL BURRS AND SHARP EDGES R.01 MAX. CONCENTRICITY MACHINED DIA: .002 FIM. MACHINE TOOL MISMATCH .003 MAX. THIRD ANGLE PROJECTION	DWN SD 12/2/2019	WERLATONE| SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
APPLICATION			CHK CS 12/2/2019	TITLE: OUTLINE	
			ENGR	SIZE B / CAGE CODE / DWG NO 20215-500 / REV A	
			MFGR	SCALE 1:1	SHEET 1 OF 1
			QA		
			RLSE		

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