WERLATONE

Model H7814

PRODUCT DATA SHEET **H7814**

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:	20 - 512 MHz
Power:	50 W CW
Insertion Loss:	0.8 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	180° ± 5° Max.
Amplitude Balance:	± 0.4 dB Max.
Isolation:	25 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
Size:	4.0 x 2.2 x 1.1''

Connector Configurations:

Model	**Sum Port (J1)**	**0°, 180° (J2,J3)**
H7814-10	N Female	N Female
H7814-12	N Female	SMA
H7814-13	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.

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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

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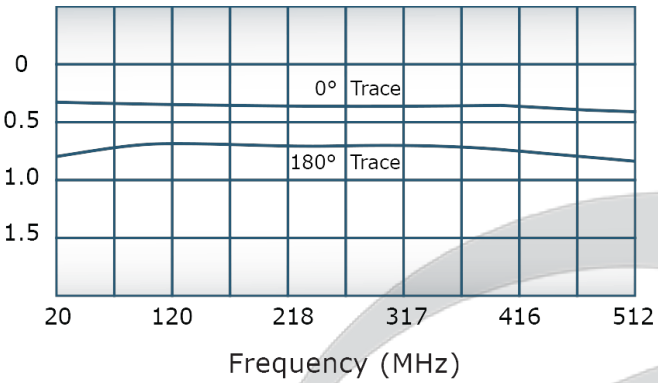
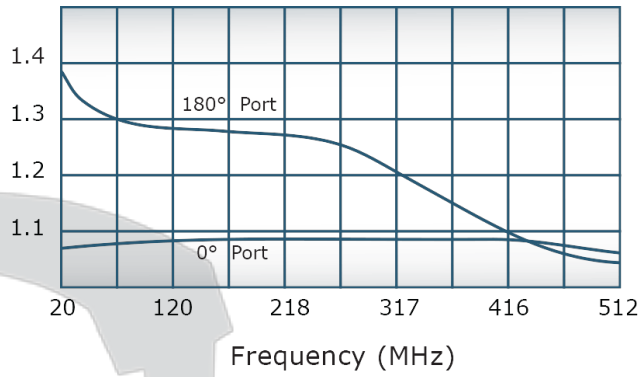
Performance Data (Specifications subject to change without notice):

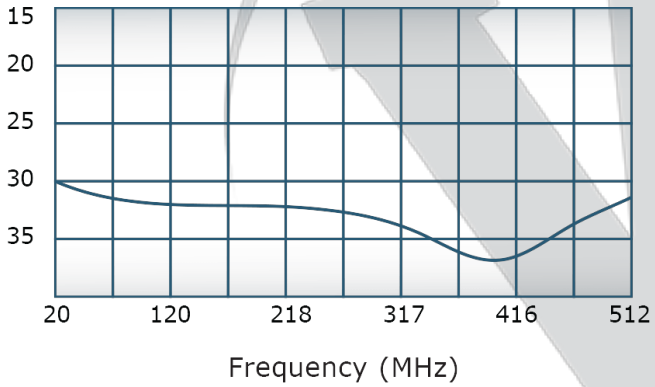
Insertion Loss:



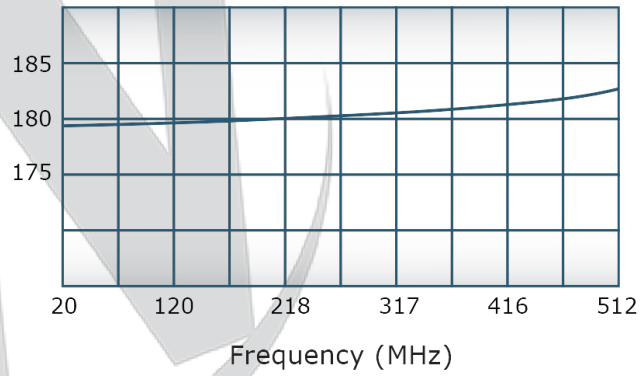
VSWR:



Isolation:



Phase Balance:



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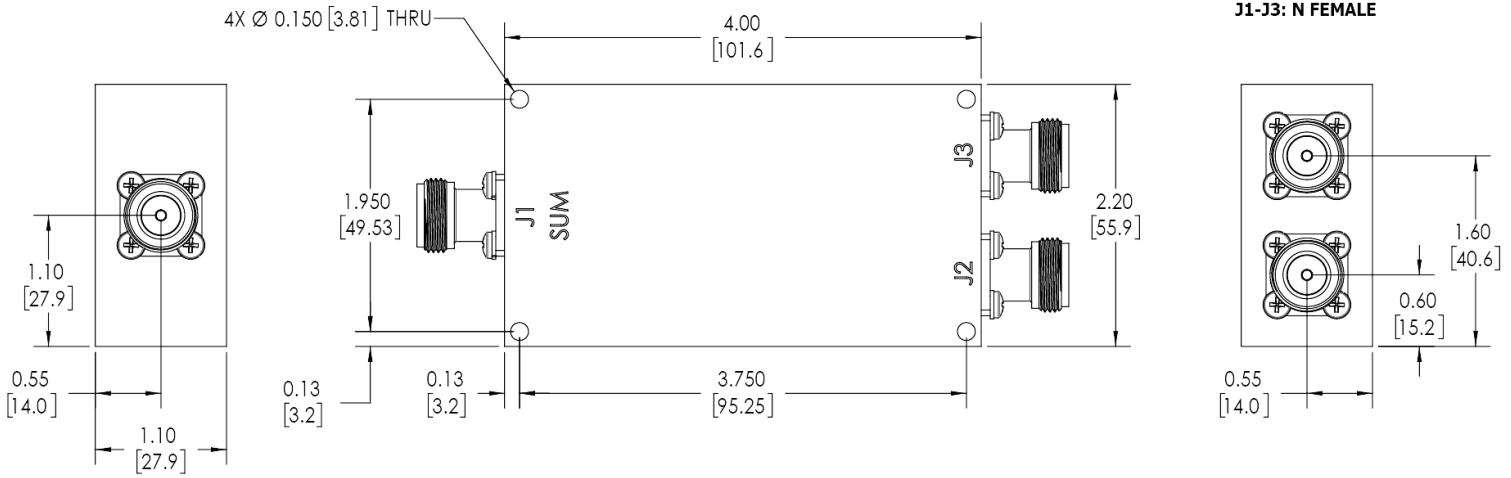
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	12/2/2019	RB

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	CHK CS 12/2/2019	ENGR	MFGR	QA	RLSE	WERLATONE| SINCE 1965 — 17 Jon Barrett Rd Patterson, NY 12563
APPLICATION						TITLE: OUTLINE
						SIZE B | CAGE CODE | DWG NO 20215-500 | REV A
						SCALE 1:1 | SHEET 1 OF 1

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