

PRODUCT DATA SHEET

C7800

3-Port Uni-Directional Coupler: Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency:	30 - 2800 MHz
Power:	20 W CW
Coupling:	20 ± 1.0 dB Max.
Insertion Loss:	2.25 dB Max.
Flatness:	± 1.0 dB Max.
VSWR (ML):	1.35:1 Max.
Directivity:	20 dB Min.

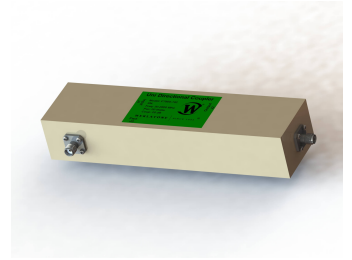
Mechanical Specifications:

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
Humidity:	95% Non-Condensing
Size:	6.0 x 1.5 x 1.1"

Connector Configurations:

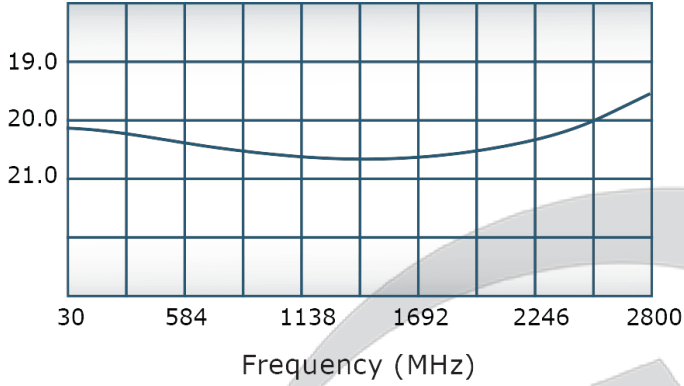
Model	Input (J1)	Output (J2)	Fwd (J3)
C7800-10	N Female	N Female	N Female
C7800-12	N Female	N Female	SMA
C7800-102	SMA	SMA	SMA

Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

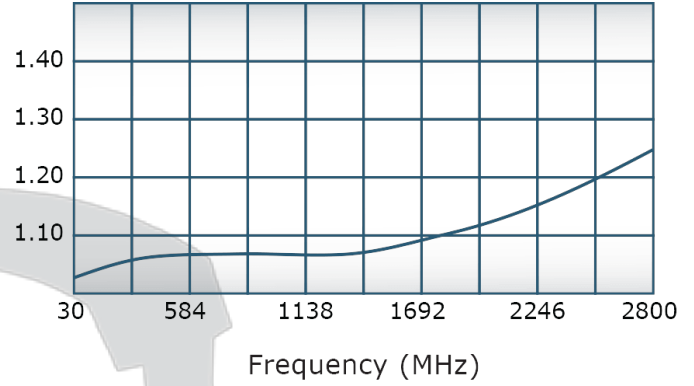


Performance Data (Specifications subject to change without notice):

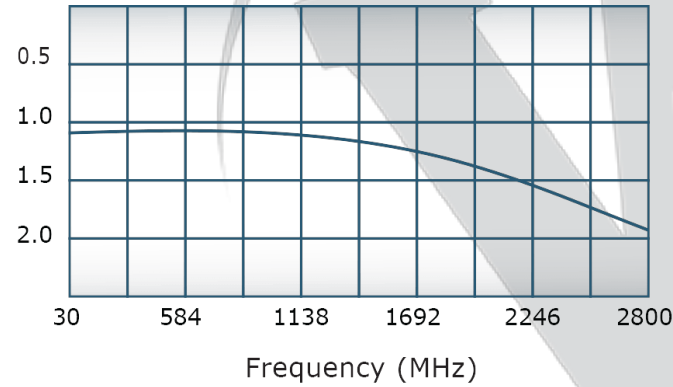
Coupling:



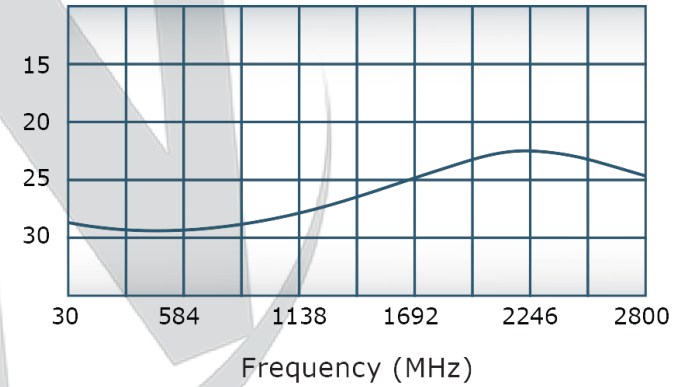
VSWR:



Insertion Loss:

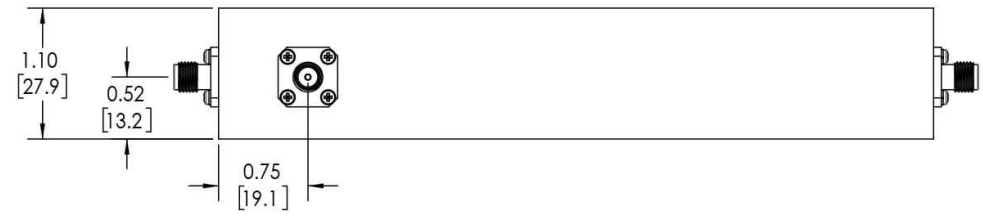
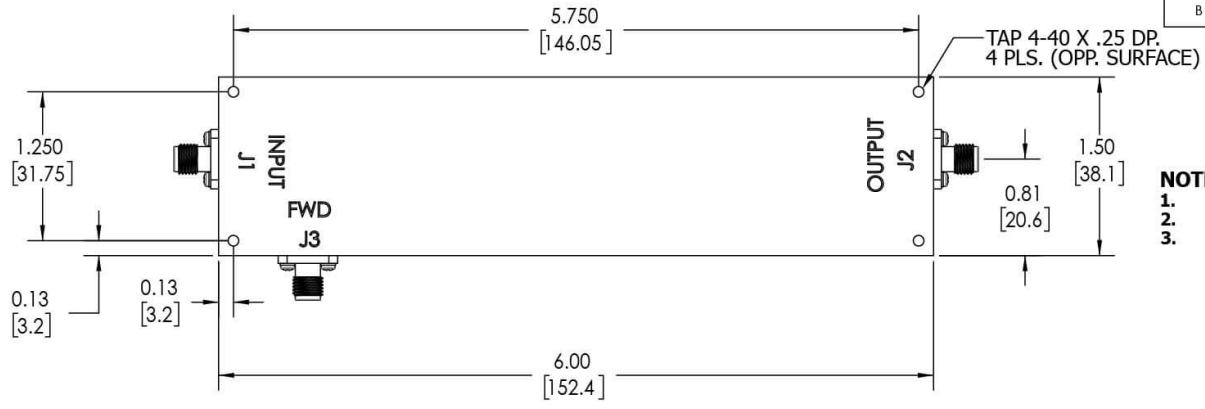


Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4310	8/27/2007	NH
B	ECN 9696	6/18/2019	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: SMA FEMALE

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 PARENTHESES FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LINES APPLY BEFORE PROCESSES TOLERANCES: ANGLES ± 2° 3 PL ± .005 [1.3] 2 PL ± .015 [3.8] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA: .002 FIM MACHINE TOOL MISMATCH .003 MAX.		SD	6/18/2019	
		CHK	DATE	TITLE OUTLINE
		CS	6/18/2019	
		ENGR	DATE	SIZE
		INFR	DATE	CAGE CODE
		QA	DATE	DWG NO
		RLSE	DATE	REV
NEXT ASSY	USED ON	SCALE		B
APPLICATION		THIRD ANGLE PROJECTION		10933-500
		SCALE		B
		SCALE		1:1
		SCALE		SHEET 1 OF 1

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