

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

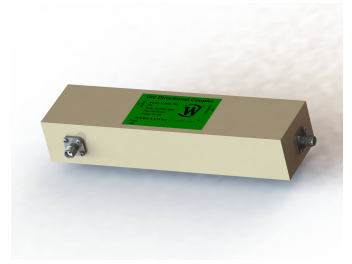
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C7800

Connectorized Directional Couplers

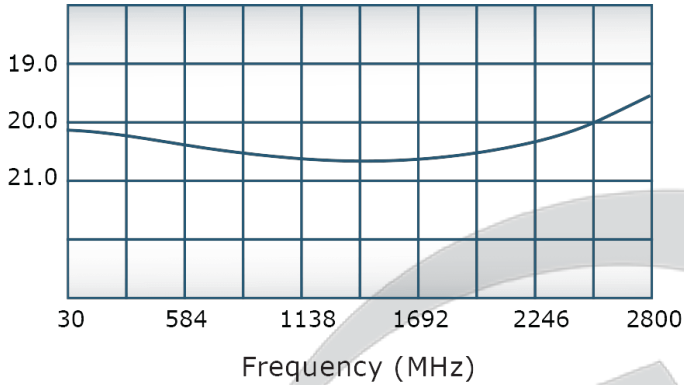


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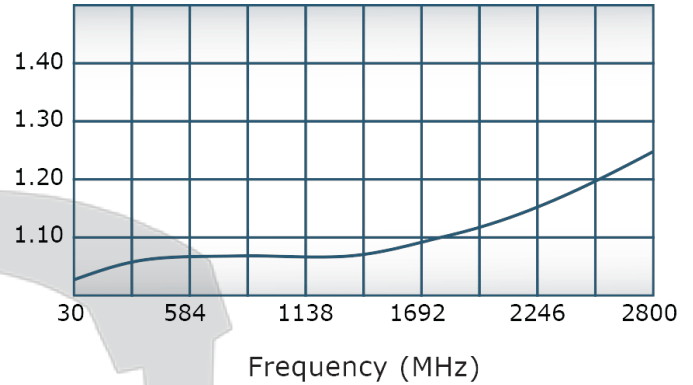
C7800

Performance Data (Specifications subject to change without notice):

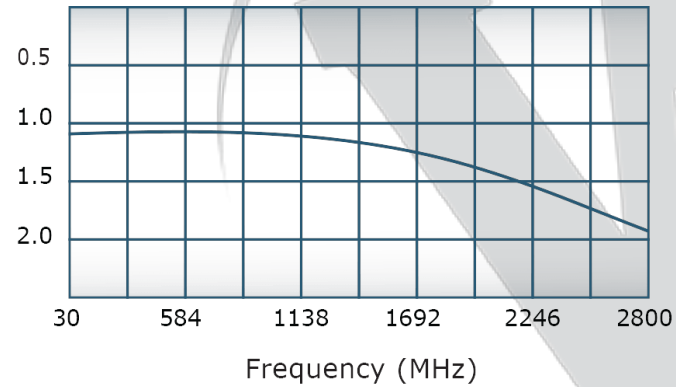
Coupling:



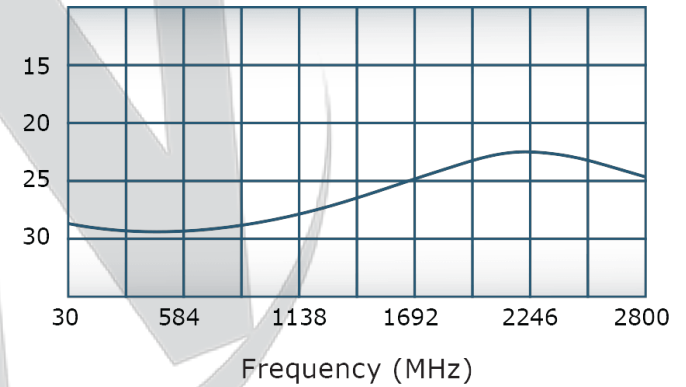
VSWR:



Insertion Loss:



Directivity:



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		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12565	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS PER ASME Y14.5-2009 PARENTAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES:		SD	6/18/2019		 OUTLINE	
		ANGLES ± ° 3 PL ± .005 [13] 3 PL ± .015 [30] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MAXIMIZED DIA. .002 FZ MACHINE TOOL RESEARCH .003 MAX		CHK	DATE			
				CS	6/18/2019			
				ENGR	DATE			
				MFR	DATE			
				QA	DATE	SIZE	CAGE CODE	DWG NO
				RLSE	DATE	10933-500		REV
						SCALE	1:1	
NEXT ASSY		USED ON						B
APPLICATION		THIRD ANGLE PROJECTION 						SHEET 1 OF 1