

PRODUCT DATA SHEET

C7199

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: 2 - 2000 MHz
 Power: 20 W CW
 Coupling: 20 ± 1.0 dB Max.
 Insertion Loss: 1.75 dB Max.
 Flatness: ± 1.0 dB Max.
 VSWR (ML): 1.25:1 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 1.50 x 1.10"

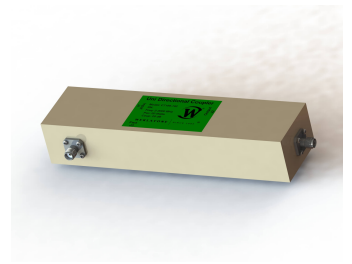
Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C7199-10	N Female	N Female	N Female
C7199-12	N Female	N Female	SMA
C7199-102	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.

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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

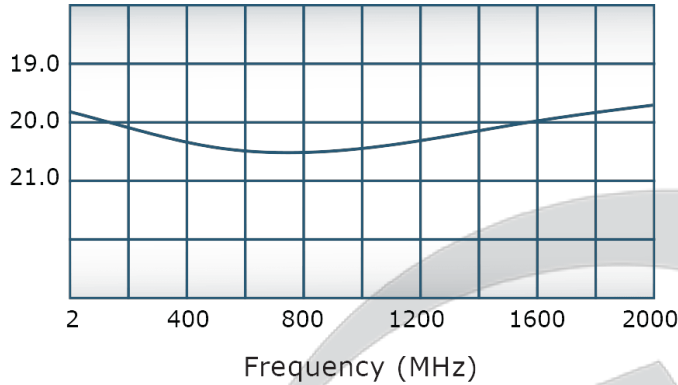


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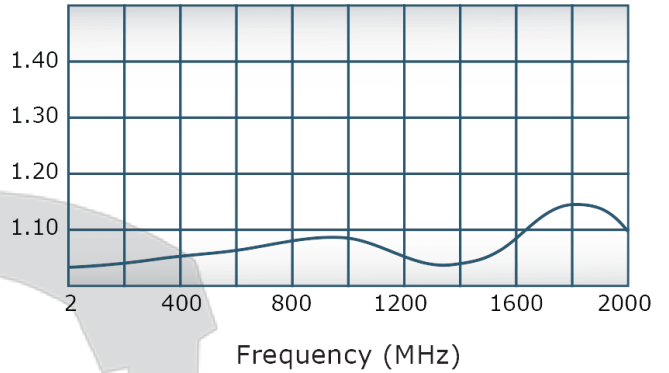
C7199

Performance Data (Specifications subject to change without notice):

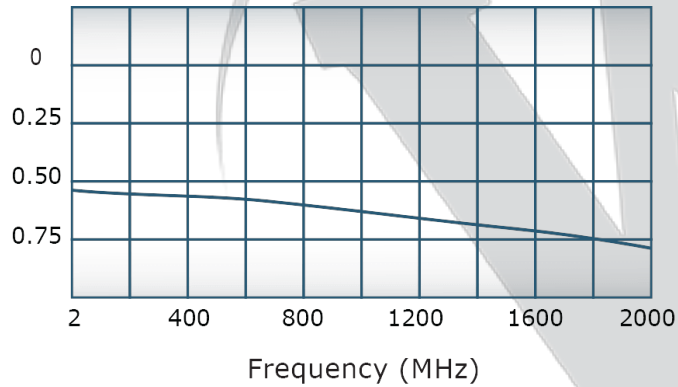
Coupling:



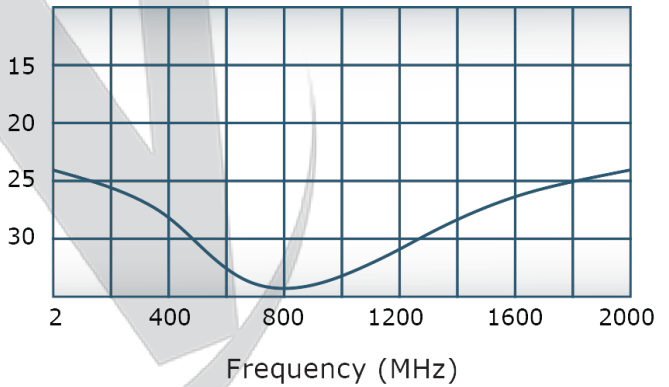
VSWR:



Insertion Loss:



Directivity:



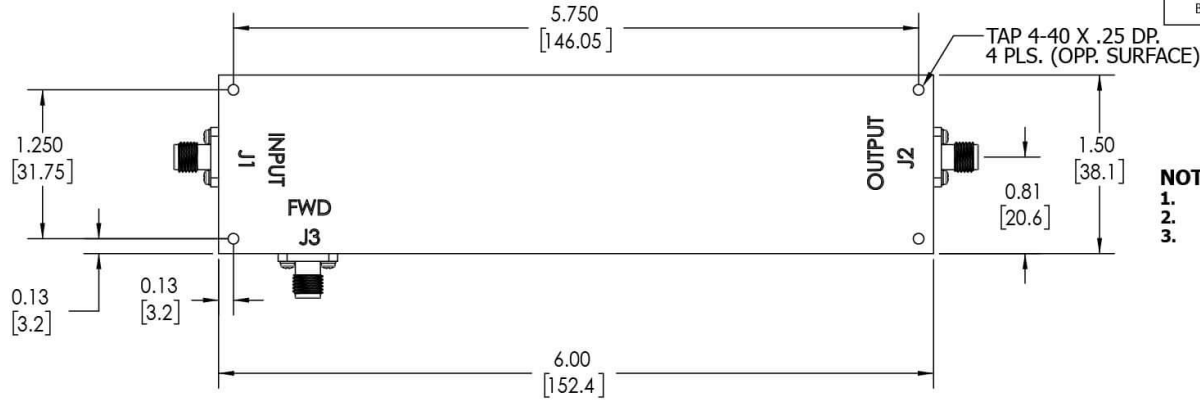
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4310	8/27/2007	NH
B	ECN 9696	6/18/2019	RB



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

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	6/18/2019	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHEetical INFO FOR REF ONLY		CS	6/18/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE CAGE CODE DWG NO B 10933-500
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	
TOLERANCES:		QA	DATE	REV B
ANGLES ± 2°		RLSE	DATE	
3 PL ± .005 [13]		SCALE		SHEET 1 OF 1
2 PL ± .015 [38]		1:1		
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		APPLICATION		
CONCENTRICITY MACHINED DIA: .002 FIM		THIRD ANGLE PROJECTION		
MACHINE TOOL MISMATCH .003 MAX.				

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