

## 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"

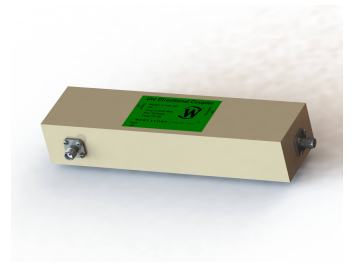
### Port Configurations:

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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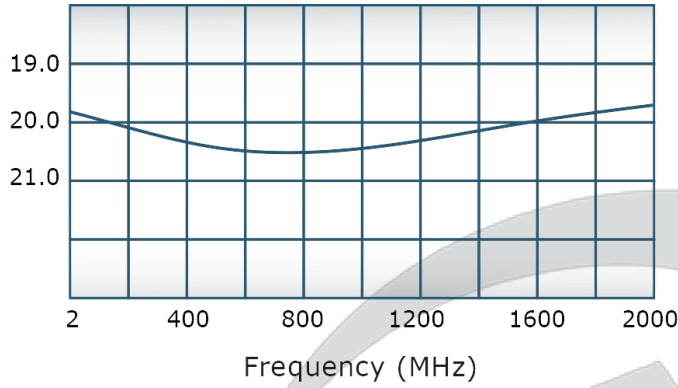


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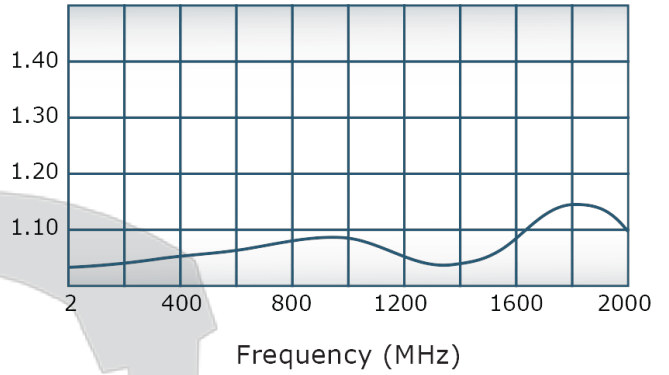
C7199

### Performance Data (Specifications subject to change without notice):

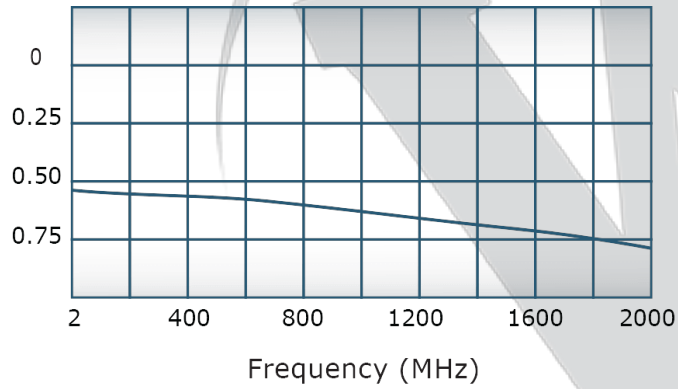
Coupling:



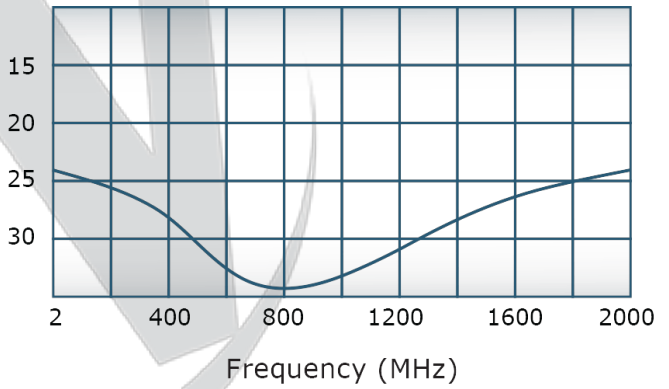
VSWR:



Insertion Loss:



Directivity:



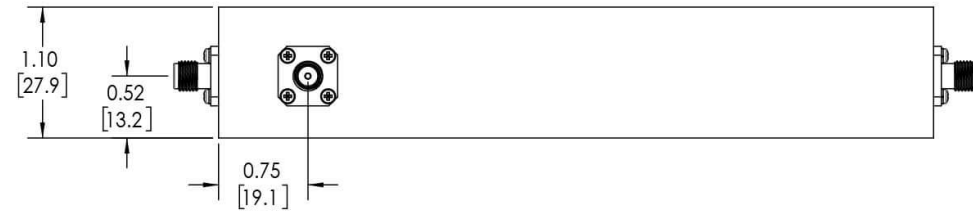
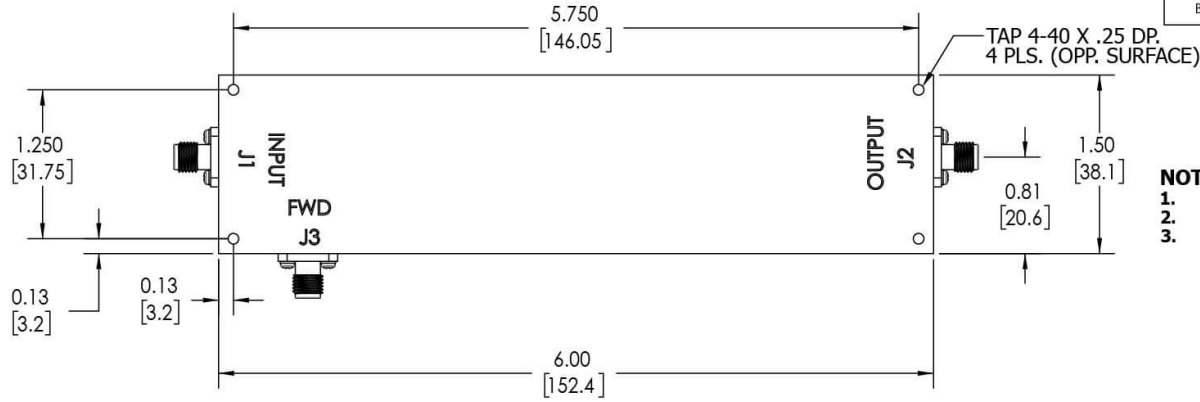
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4310	8/27/2007	NH
B	ECN 9696	6/18/2019	RB



- 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	<b>OUTLINE</b>	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE		
TOLERANCES:		QA	DATE	SIZE	CAGE CODE
ANGLES ± 2°		RLSE	DATE	B	10933-500
3 PL ± .005 [13]				DWG NO	REV
2 PL ± .015 [38]				B	B
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SCALE	SHEET 1 OF 1
CONCENTRICITY MACHINED DIA: .002 FIM				1:1	
MACHINE TOOL MISMATCH .003 MAX.					
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION			
APPLICATION					

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