
**PRODUCT DATA SHEET**
**C8719**

**4-Port Dual Directional Coupler** employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

**Features:**

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

**Electrical Specifications:**

Frequency:      80 - 1000 MHz  
 Power:          2500 W CW  
 Coupling:        60 ± 1.0 dB Max.  
 Insertion Loss: 0.1 dB Max.  
 Flatness:        ± 0.5 dB Max.  
 VSWR (ML):    1.30:1 Max.  
 Directivity:     20 dB Min.

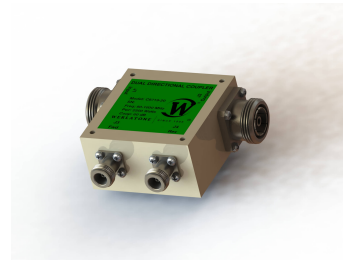
**Mechanical Specifications:**

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:              3.0 x 3.0 x 1.59"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8719-20	7/16 Female	7/16 Female	N Female	N Female
C8719-22	7/16 Female	7/16 Female	SMA	SMA
C8719-23	7/16 Female	7/16 Female	BNC	BNC
C8719-41	SC Female	SC Female	N Female	N Female
C8719-43	SC Female	SC Female	SMA	SMA
C8719-727	7/16 Male	7/16 Female	N Female	N Female
C8719-728	7/16 Male	7/16 Female	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.

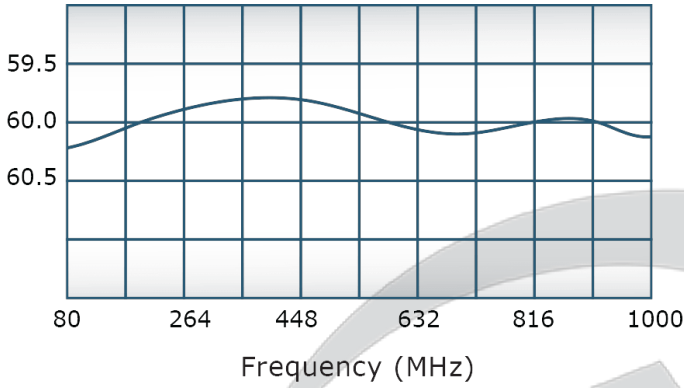


## PRODUCT DATA SHEET

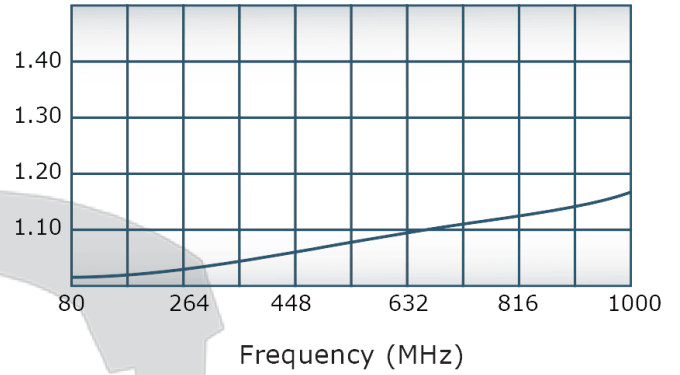
C8719

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

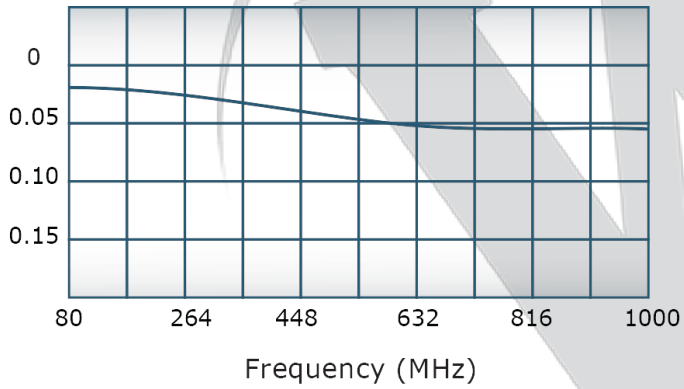
Coupling:



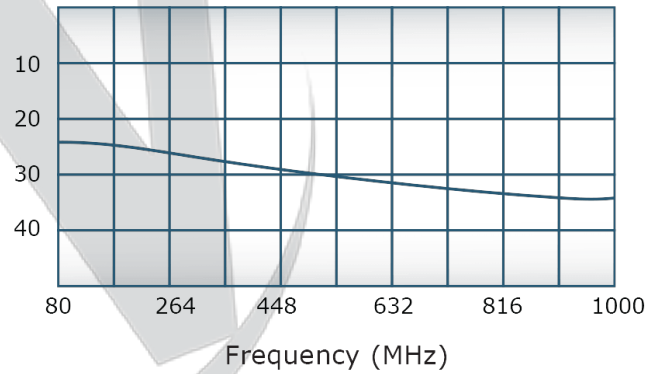
VSWR:



Insertion Loss:



Directivity:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

Werlatone, Inc.

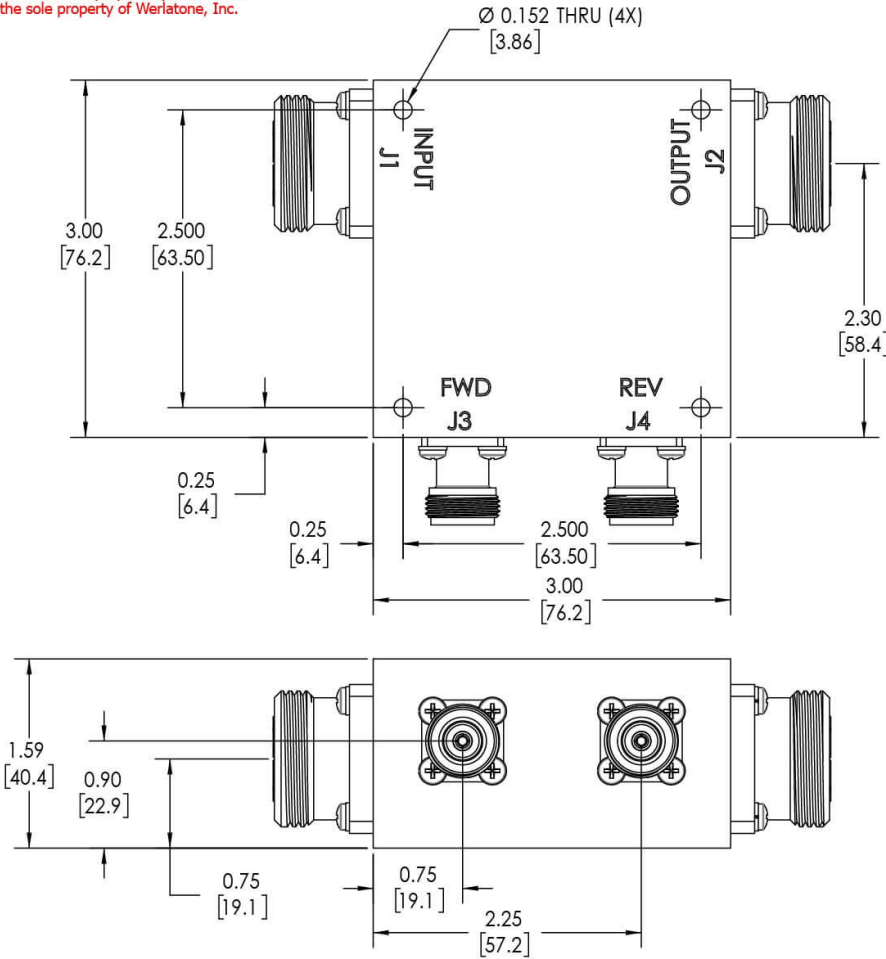
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**  
 This document contains proprietary information which is the sole property of Werlatone, Inc.

REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
- CONNECTORS:  
 J1, J2: 7/16 FEMALE  
 J3, J4: N FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	5/13/2019	CHK		
DIMENSIONS PER ASME Y14.5M-2009	CS	5/13/2019	ENGR	DATE	TITLE
PARENTHETICAL INFO FOR REF ONLY					OUTLINE
DIMENSIONS ARE IN INCHES					SIZE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES					CAGE CODE
TOLERANCES:					DWG NO
ANGLES ± 2°					REV
3 PL ± .005 [13]					B
2 PL ± .015 [38]					10443-501
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					A
CONCENTRICITY MACHINED DIA: .002 FIM					
MACHINE TOOL MISMATCH .003 MAX.					
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION	SCALE	SHEET 1 OF 1	
APPLICATION			1:1		

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com