

PRODUCT DATA SHEET

C7402

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:	500 - 2500 MHz
Power:	100 W CW
Coupling:	30 ± 1.0 dB Max.
Insertion Loss:	0.3 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.30:1 Max.
Directivity:	20 dB Min.

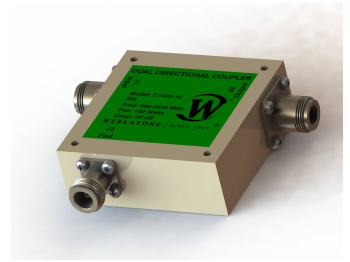
Mechanical Specifications:

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 1.09"

Connector Configurations:

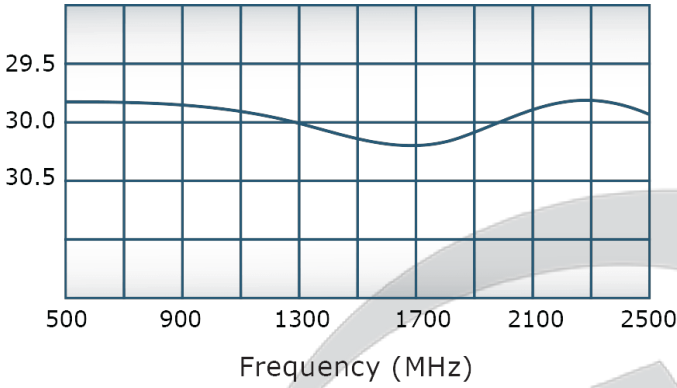
Model	Input (J1)	Output (J2)	Fwd (J3)
C7402-10	N Female	N Female	N Female
C7402-12	N Female	N Female	SMA
C7402-13	N Female	N Female	BNC
C7402-41	SC Female	SC Female	N Female
C7402-43	SC Female	SC Female	SMA

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.

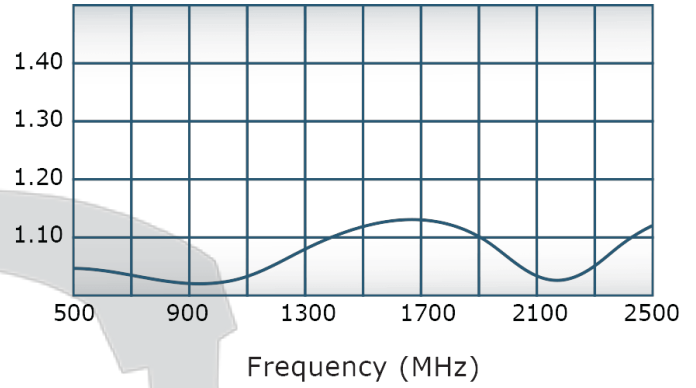


Performance Data (Specifications subject to change without notice):

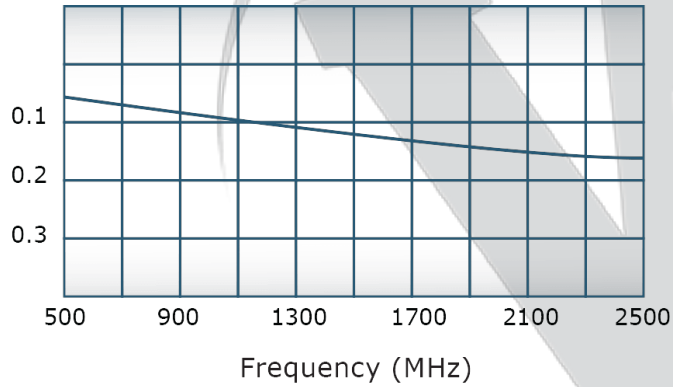
Coupling:



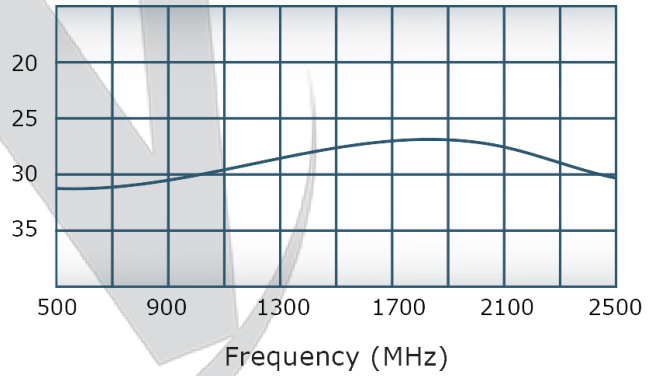
VSWR:



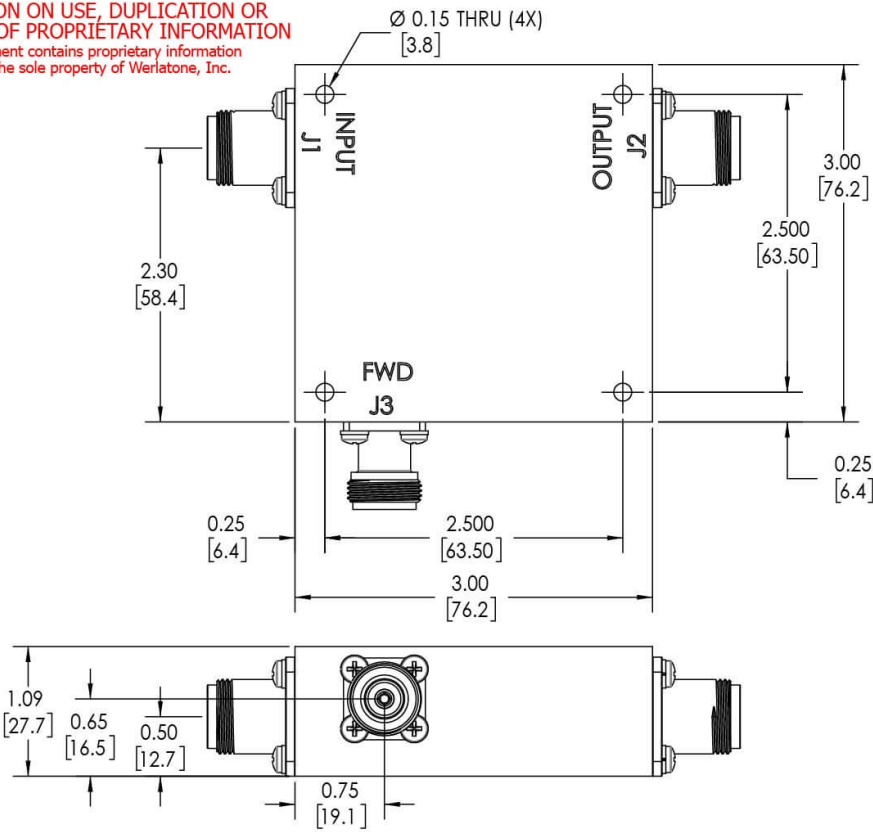
Insertion Loss:



Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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

UNLESS OTHERWISE SPECIFIED		DATE	2/11/2019	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	DATE	2/11/2019		
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	2/11/2019	TITLE	
PARENTHEetical INFO FOR REF ONLY	CD	DATE	2/11/2019	OUTLINE	
DIMENSIONS ARE IN INCHES	ENGR	DATE		SIZE	CAGE CODE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE		B	10379-510
TOLERANCES:	QA	DATE		DWG NO	REV
ANGLES = 2°	RLSE	DATE			A
3 PL ± .005 [13]				SCALE	
2 PL ± .015 [38]				1:1	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY MACHINED DIA: .002 FIM					
MACHINE TOOL MISMATCH .003 MAX.					
NEXT ASSY	USED ON				
APPLICATION	THIRD ANGLE PROJECTION				SHEET 1 OF 1

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