
PRODUCT DATA SHEET
C6729

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: 0.01 - 1000 MHz
 Power: 50 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 0.7 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: 5.2 x 2.27 x 1.69"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C6729-10	N Female	N Female	N Female
C6729-12	N Female	N Female	SMA
C6729-13	N Female	N Female	BNC
C6729-102	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.

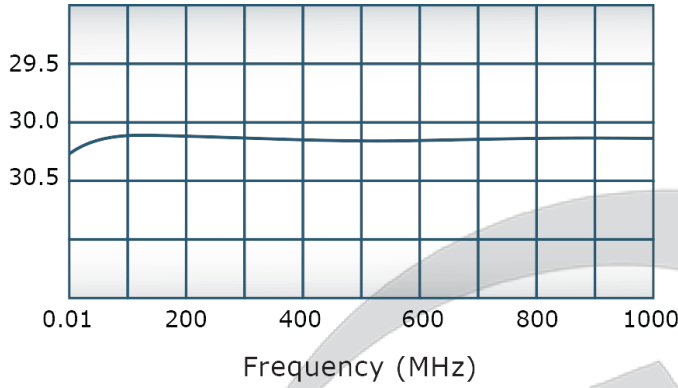


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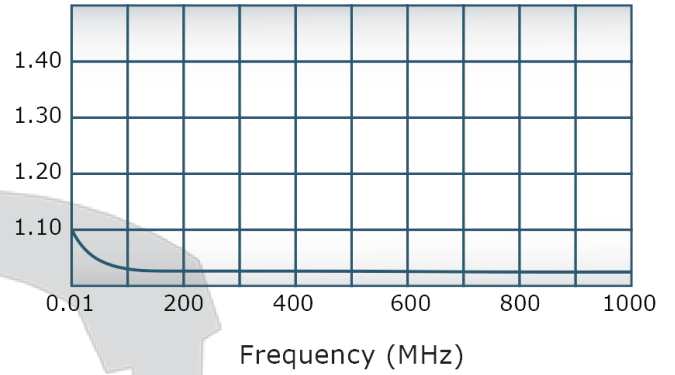
C6729

Performance Data (Specifications subject to change without notice):

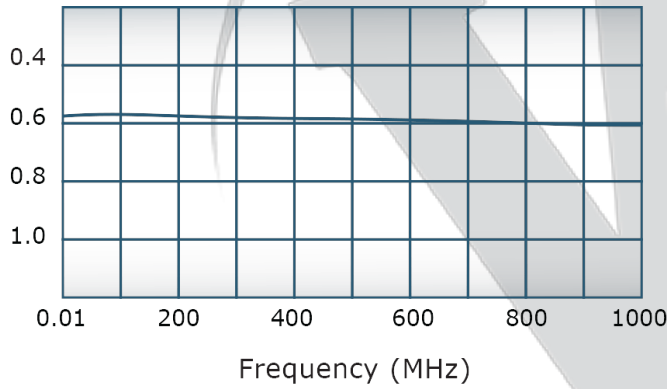
Coupling:



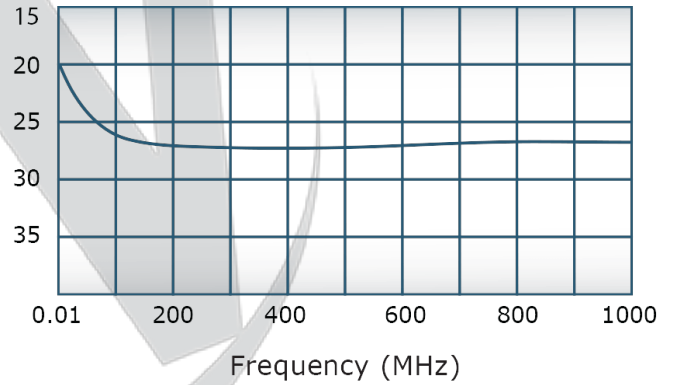
VSWR:



Insertion Loss:



Directivity:



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Werlatone, Inc.

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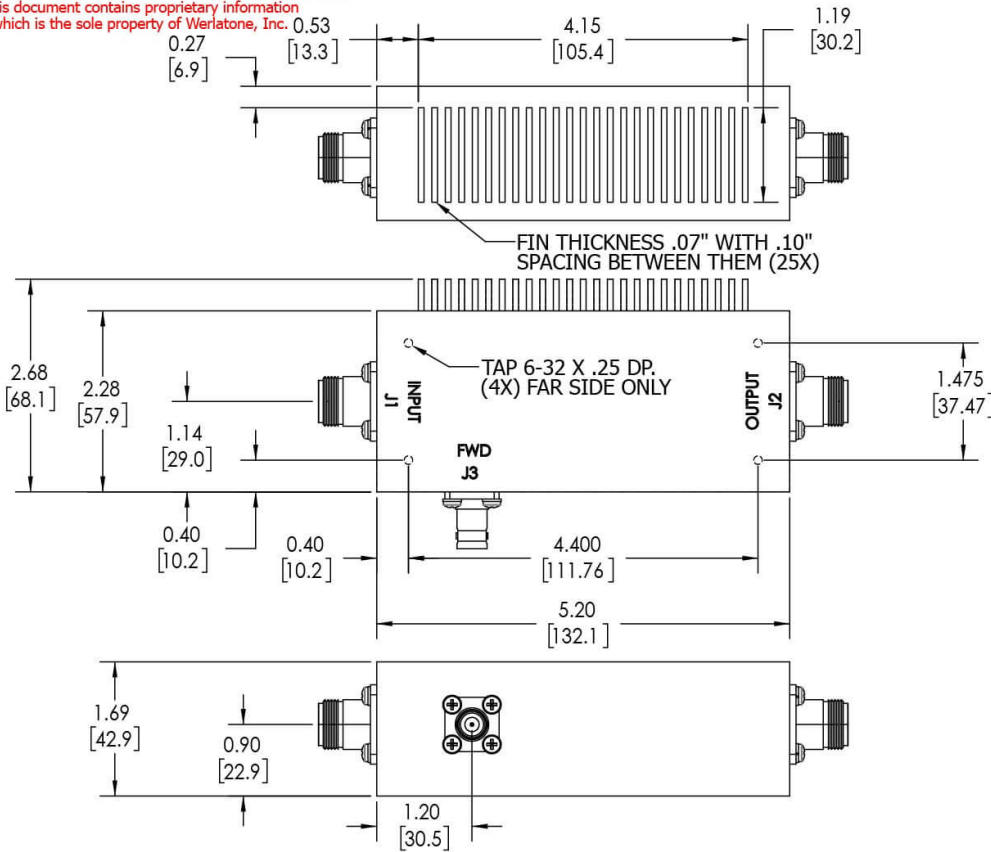
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 3933	1/06	CS
B	ECN 9696	11/30/2018	RB

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: BNC FEMALE**



UNLESS OTHERWISE SPECIFIED		DATE	2/11/2019	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERRUPT 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	ENGR	DATE	2/27/2002	OUTLINE	
DIMENSIONS ARE IN INCHES	CS	DATE			
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE		SIZE	CAGE CODE
TOLERANCES:	QA	DATE		B	10407-503
ANGLES = 2°	RLSE	DATE		DWG NO	REV
3 PL ± .005 [13]				B	B
2 PL ± .015 [38]				SCALE	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				1:1.5	
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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