



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.



WERLATONE

Model C6729

Connectorized Directional Couplers

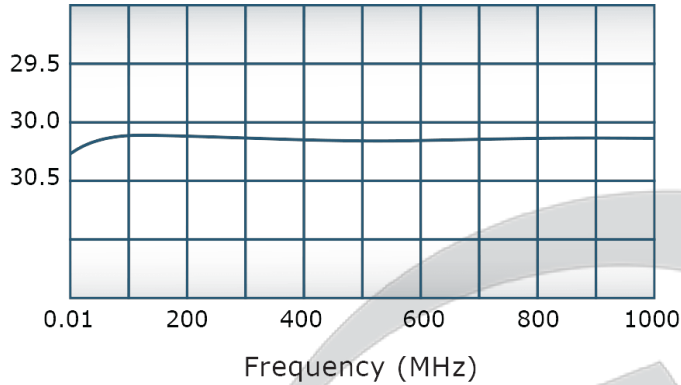


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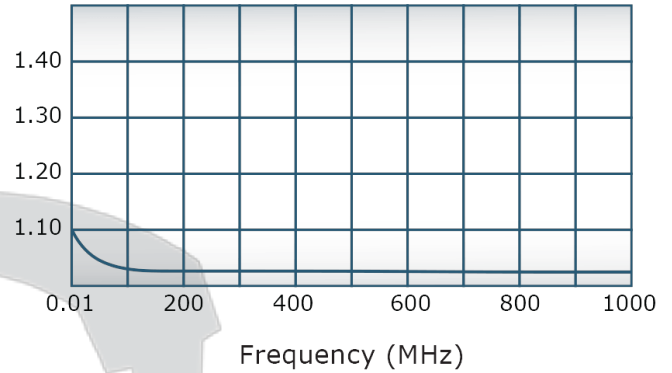
C6729

Performance Data (Specifications subject to change without notice):

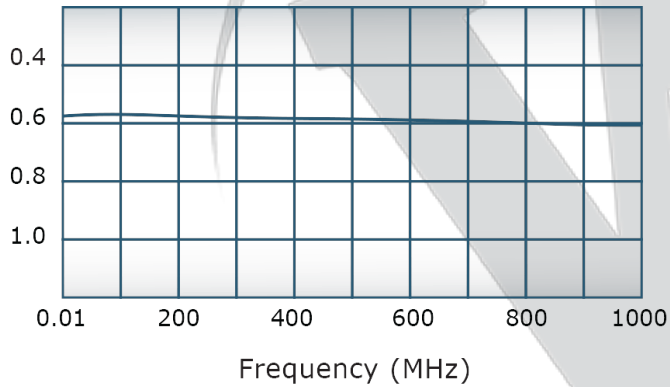
Coupling:



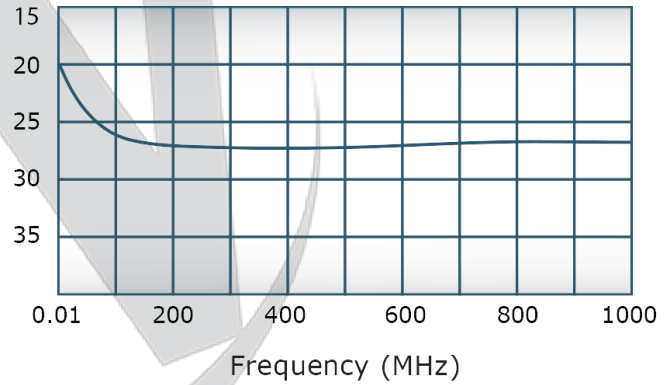
VSWR:



Insertion Loss:



Directivity:



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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

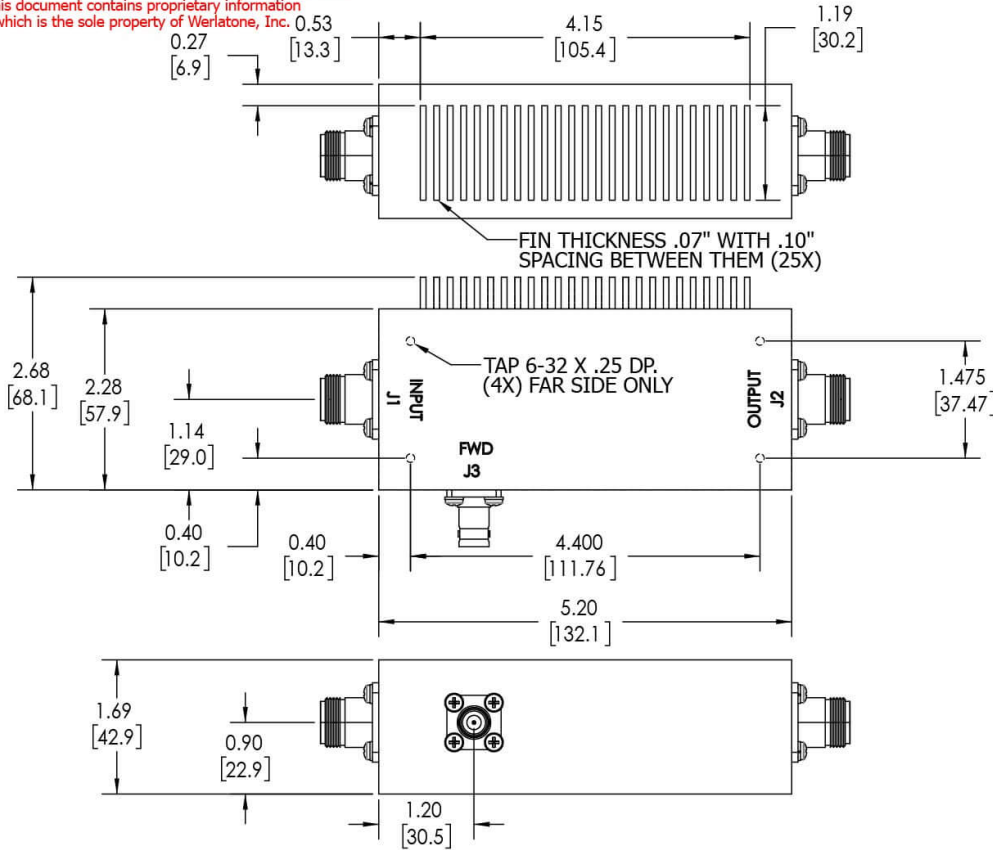
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 3933	1/06	CS
B	ECN 9696	11/30/2018	RB

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		OWN	DATE	 WERLATONE [®] SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/19				
		DIMENSIONS FOR ASSEMBLY 1/4-504-2009		CHK	DATE				
		PARENTHESES ARE IN INCHES		CS	2/11/19	TITLE			
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ENGR	DATE				
		TOLERANCES:		CS	2/27/2002				
		ANGLES ± 2°		INFR	DATE				
		3 PL ± .005 [13]		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		2 PL ± .015 [38]				B		10407-503	B
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		RLSE	DATE	SCALE			
		CONCENTRICITY MACHINED DIA. .002 FIM				1:1.5			
		MACHINE TOOL MISMATCH .003 MAX							
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION 				SHEET 1 OF 1	
APPLICATION									