


PRODUCT DATA SHEET
C10745

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: 500 - 2500 MHz
Power: 500 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 1.00 dB Max.
VSWR (ML): 1.35:1 Max.
Directivity: 15 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: 2.15 x 2.0 x 1.36"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10745-20	7/16 Female	7/16 Female	N Female	N Female
C10745-22	7/16 Female	7/16 Female	SMA	SMA
C10745-727	7/16 Male	7/16 Female	N Female	N Female

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 C10745

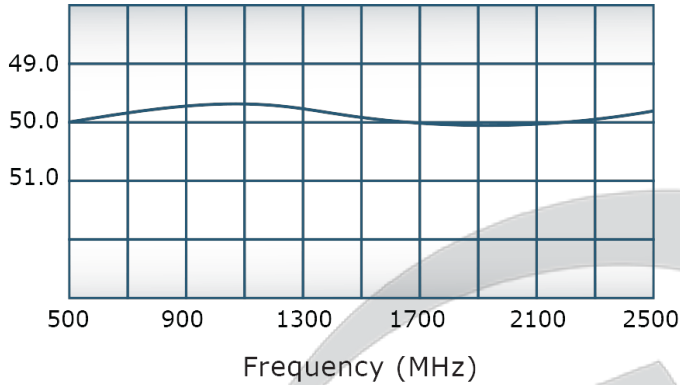


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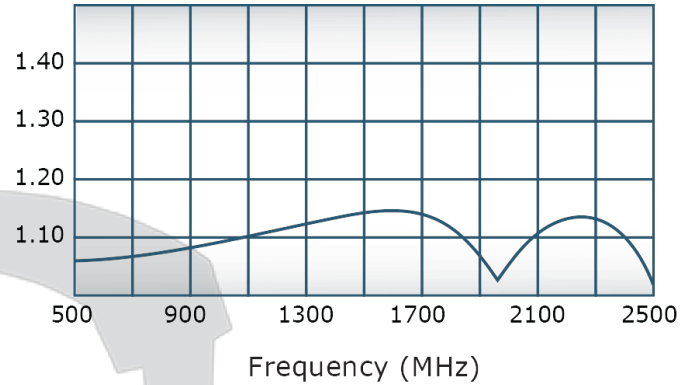
C10745

Performance Data (Specifications subject to change without notice):

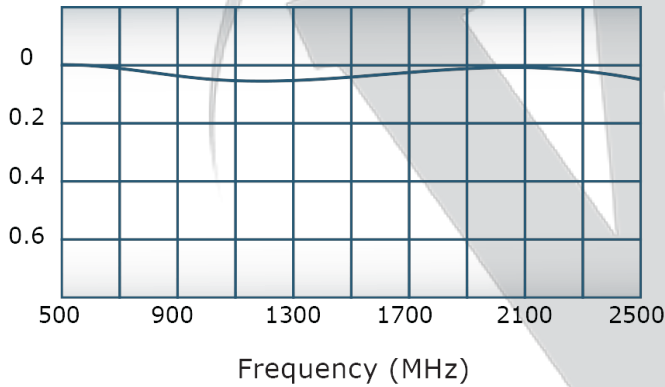
Coupling:



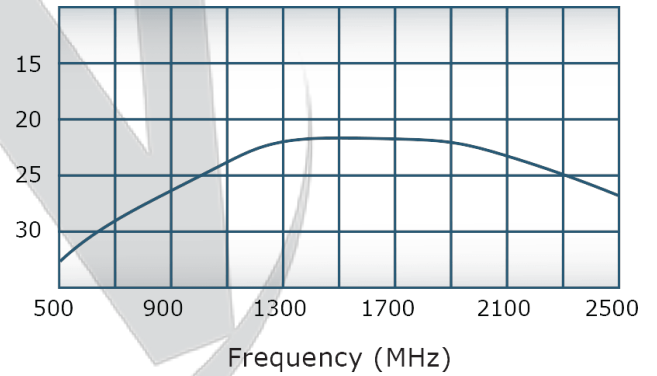
VSWR:



Insertion Loss:



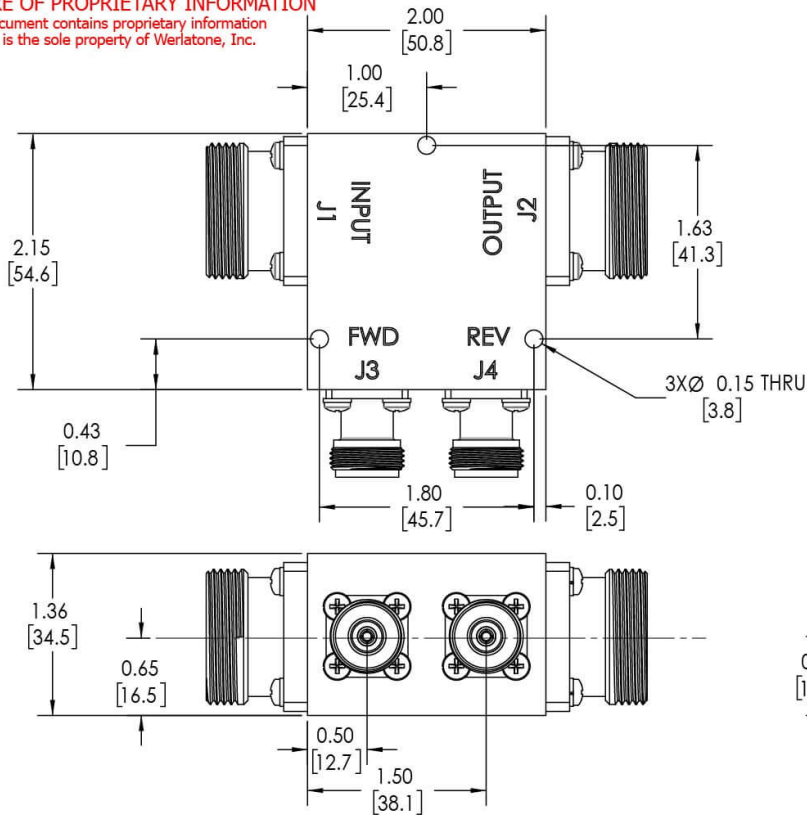
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW
A	ECN 9696	3/25/19	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: 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	3/25/2019					
DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	TITLE				
PARENTHESES FOR REF ONLY		CS	3/25/2019					
DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE				
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE					
TOLERANCES:		QA	DATE	SIZE		CAGE CODE	DWG NO	REV
ANGLES ± 2°		RLSE	DATE	SCALE		21316-500		A
3 PL ± .005 [13]		THIRD ANGLE PROJECTION 						
2 PL ± .015 [38]								
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX								
CONCENTRICITY MACHINED DIA. .002 FIM								
MACHINE TOOL MISMATCH .003 MAX								
NEXT ASSY	USED ON	APPLICATION						
		SHEET 1 OF 1						

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