



PRODUCT DATA SHEET

C10751

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:	700 - 4200 MHz
Power:	1000 W CW
Coupling:	60 ± 1.0 dB Max.
Insertion Loss:	0.2 dB Max.
Flatness:	± 1.0 dB Max.
VSWR (ML):	1.35:1 Max.
Directivity:	18 dB Min.

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F
	Type II Class 3 (Clear 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)
C10751-20	7/16 Female	7/16 Female	N Female	N Female
C10751-22	7/16 Female	7/16 Female	SMA	SMA
C10751-727	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 C10751

Connectorized Directional Couplers

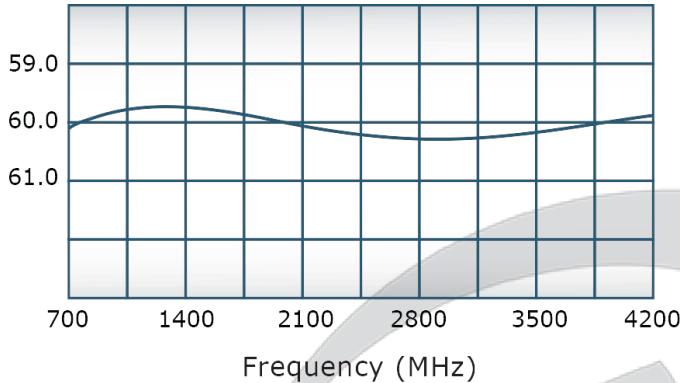


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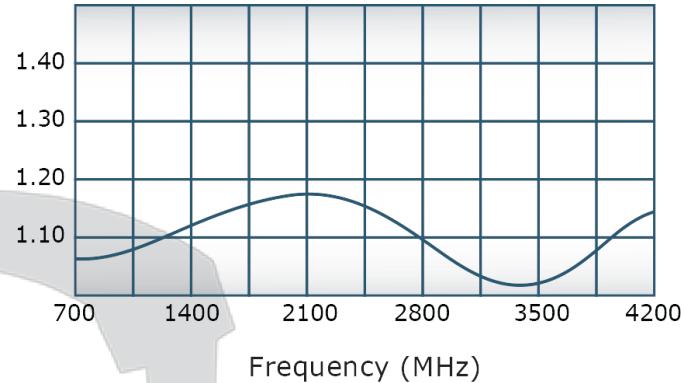
C10751

Performance Data (Specifications subject to change without notice):

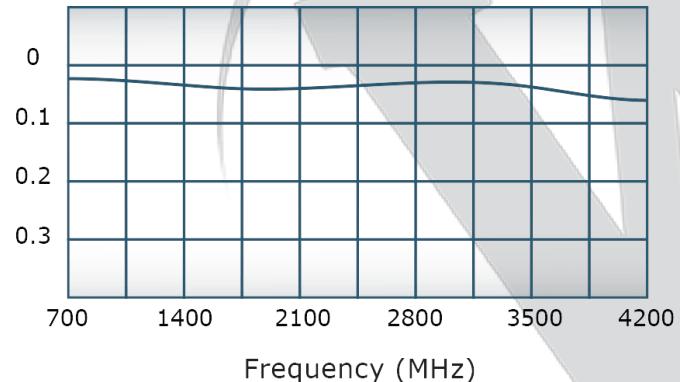
Coupling:



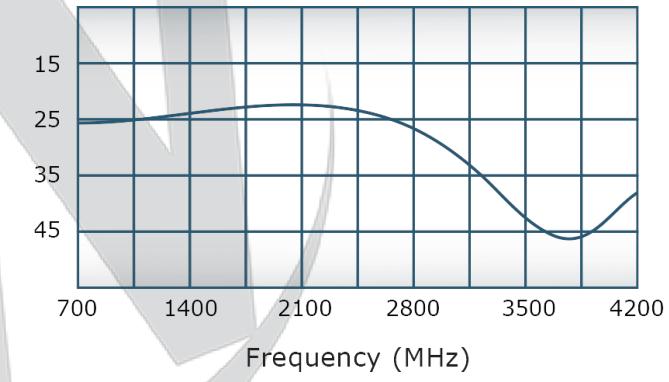
VSWR:



Insertion Loss:



Directivity:



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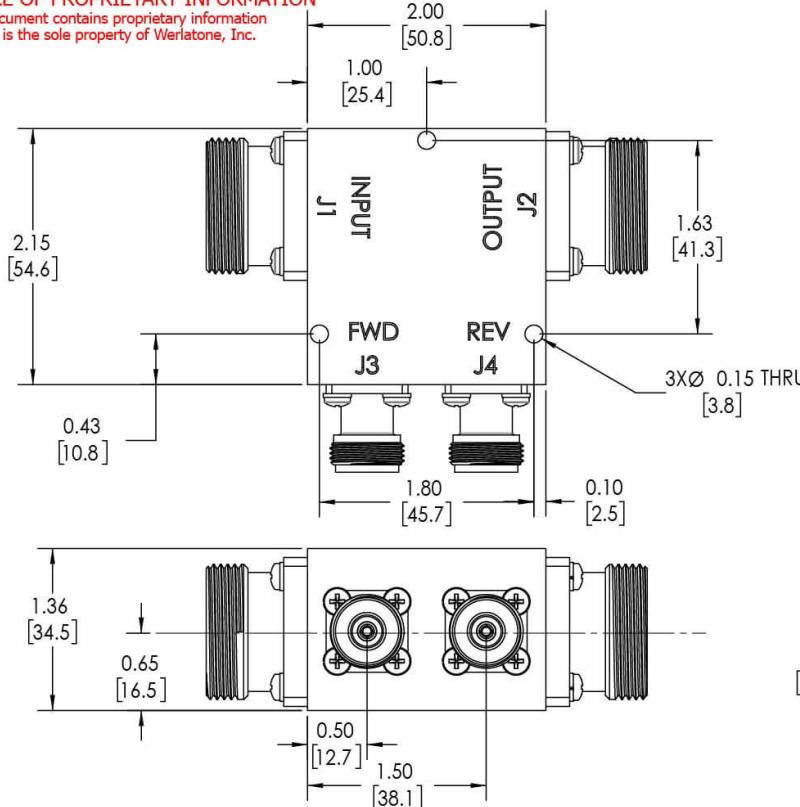
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW
A	ECN 9696	3/25/19	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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

		UNLESS OTHERWISE SPECIFIED	DWN	DATE	17 Jon Barrett Rd
		INTERPRET DRAWING JAW MIL-STD-100	SD	3/25/2019	WERLATONE SINCE 1965
		UNIVERSAL DRAWING ASYM 114-SM-2009	CHK	DATE	Patterson, NY 12563
		PARENTHETICAL: THIS IS FOR REFERENCE ONLY	CS	3/25/2019	
		DIMENSIONAL LINES ARE IN INCHES	ENGR	DATE	
		TOLERANCES	MFGR	DATE	
		ANGLES $\pm 2^\circ$	QA	DATE	
		3 RL $\pm .005$ [1.27]	RELEASE	DATE	
		2.75 RL $\pm .012$ [3.9]			
		REMOVE ALL BURRS AND SHARP EDGES R0.01 MAX			
		CONCENTRICITY MACHINED DIA. .002 FIM			
		MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY	USED ON				
APPLICATION	THIRD ANGLE PROJECTION				

OUTLINE

SIZE: B
CAGE CODE: 21316-500
DWG NO: A

SCALE: 1:1
REV: A
SHEET: 1 OF 1

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