WERLATONE

Model C10537
Connectorized Directional Couplers

PRODUCT DATA SHEET **C10537**

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:	700 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)**
C10537-20	7/16 Female	7/16 Female	N Female	N Female
C10537-22	7/16 Female	7/16 Female	SMA	SMA
C10537-727	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.

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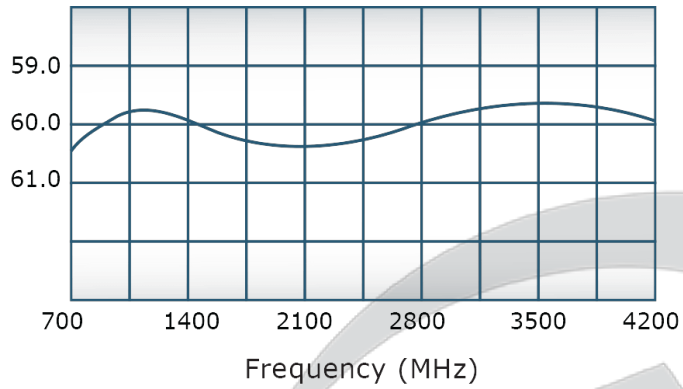
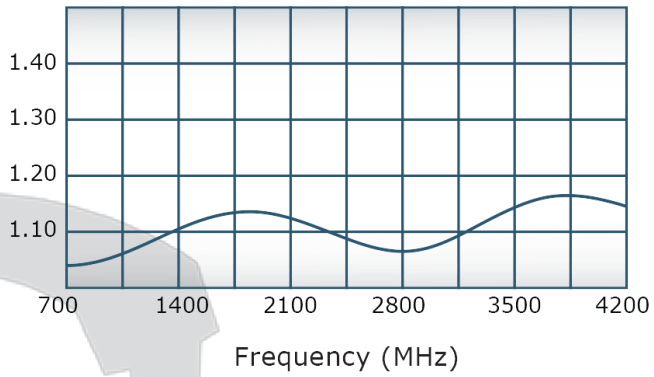
Performance Data (Specifications subject to change without notice):

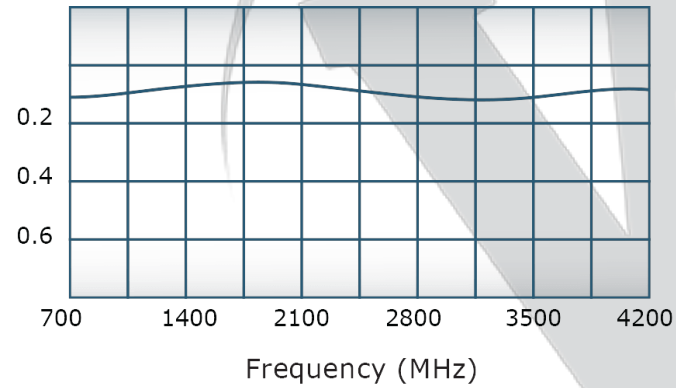
Coupling:



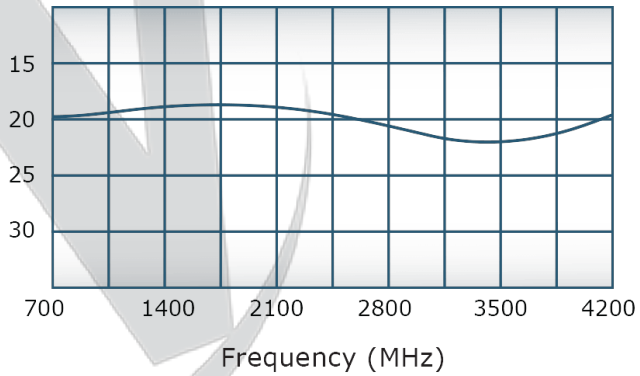
VSWR:



Insertion Loss:



Directivity:



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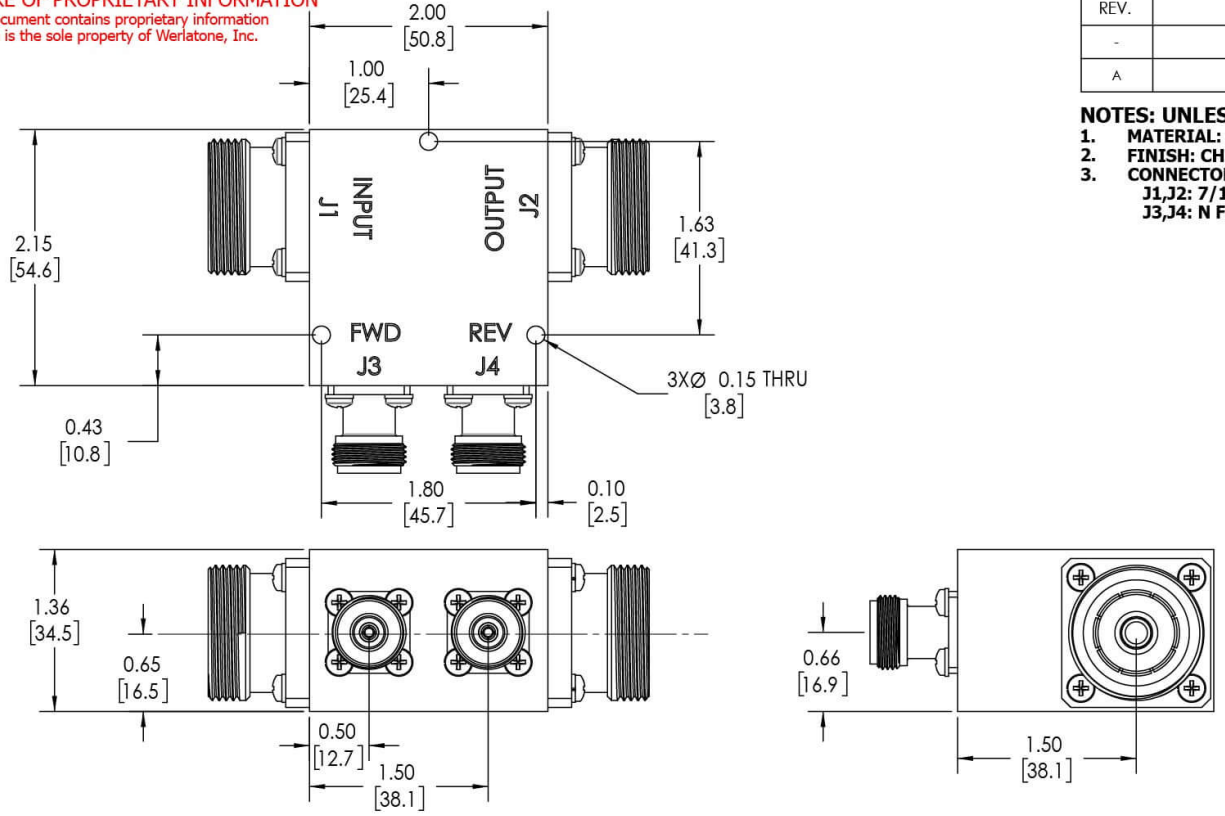
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW
A	ECN 9696	3/25/19	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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



NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED: INTERPRET DRAWING IAW MIL-STD-100; DIMENSIONING PER ASME Y14.5M-2009; PARENTHETICAL INFO FOR REF ONLY; DIMENSIONS ARE IN INCHES; DIMENSIONAL LIMITS APPLY BEFORE PROCESSES; TOLERANCES: ANGLES ± 2°, 3 PL ± .005 [.13], 2 PL ± .015 [.38]; REMOVE ALL BURRS AND SHARP EDGES R.01 MAX; CONCENTRICITY MACHINED DIA: .002 FIM; MACHINE TOOL MISMATCH .003 MAX	DWN SD 3/25/2019	CHK CS 3/25/2019	ENGR	MFGR	QA	RLSE	WERLATONE| SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
APPLICATION		THIRD ANGLE PROJECTION					TITLE: OUTLINE
							SIZE B | CAGE CODE | DWG NO 21316-500 | REV A
							SCALE 1:1 | SHEET 1 OF 1

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