


**PRODUCT DATA SHEET**
**C10746**

**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:            2000 - 6500 MHz  
 Power:                500 W CW  
 Coupling:             50 ± 1.0 dB Max.  
 Insertion Loss:      0.2 dB Max.  
 Flatness:             ± 1.0 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)
C10746-20	7/16 Female	7/16 Female	N Female	N Female
C10746-22	7/16 Female	7/16 Female	SMA	SMA
C10746-727	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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Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

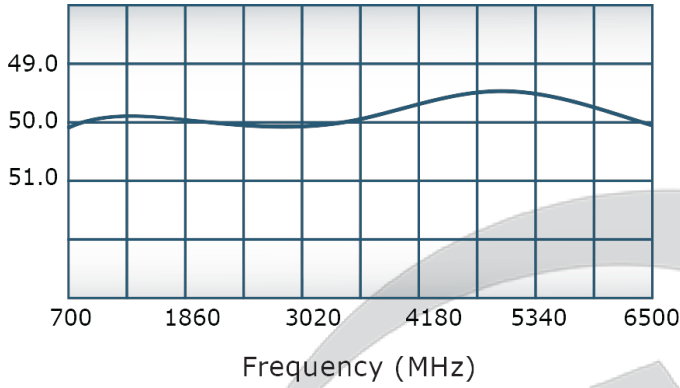


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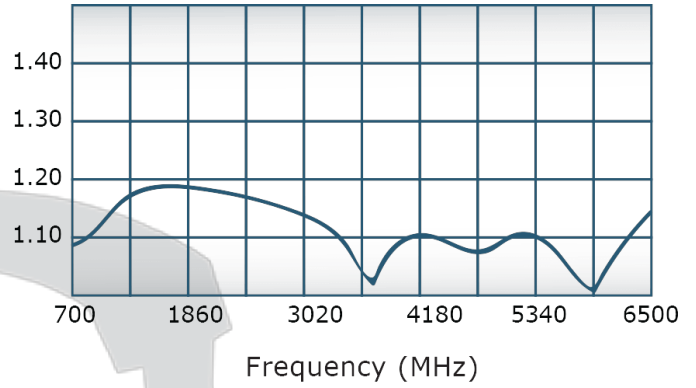
C10746

**Performance Data (Specifications subject to change without notice):**

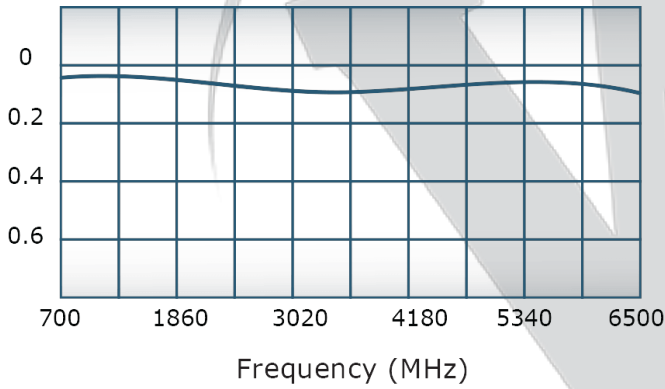
Coupling:



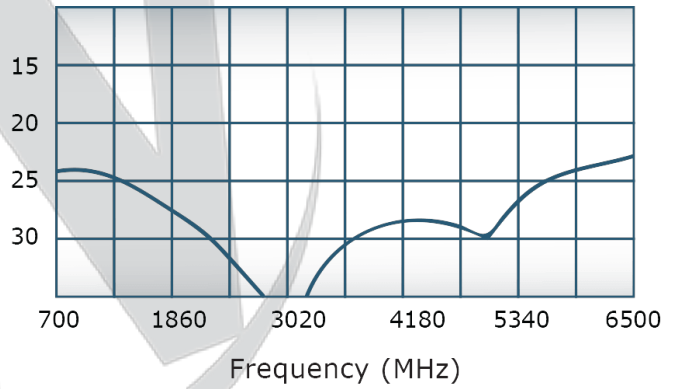
VSWR:



Insertion Loss:



Directivity:



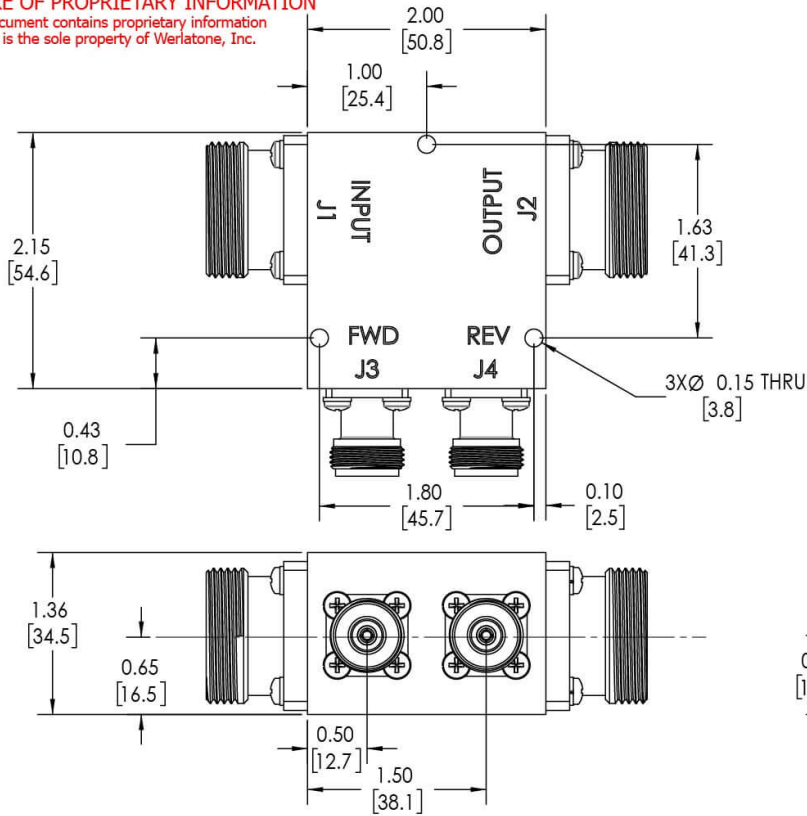
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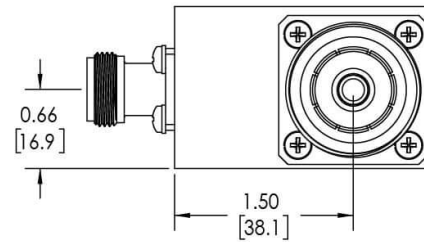


**REVISION HISTORY**

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**



UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS FOR ASME Y14.5M-2009 PARENTHESES FOR REFERENCE 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 CHK CS ENGR INFR QA RLSE	DATE 3/25/2019 DATE 3/25/2019 DATE DATE DATE DATE	<b>WERLATONE</b> SINCE 1965 <b>OUTLINE</b> SIZE CAGE CODE DWG NO <b>B</b> 21316-500 SCALE 1:1 SHEET 1 OF 1	17 Jon Barrett Rd Patterson, NY 12563 REV A
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