


**PRODUCT DATA SHEET**
**C10364**

**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 - 6000 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) |
|------------|-------------|-------------|----------|----------|
| C10364-20  | 7/16 Female | 7/16 Female | N Female | N Female |
| C10364-22  | 7/16 Female | 7/16 Female | SMA      | SMA      |
| C10364-727 | 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.

**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of 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

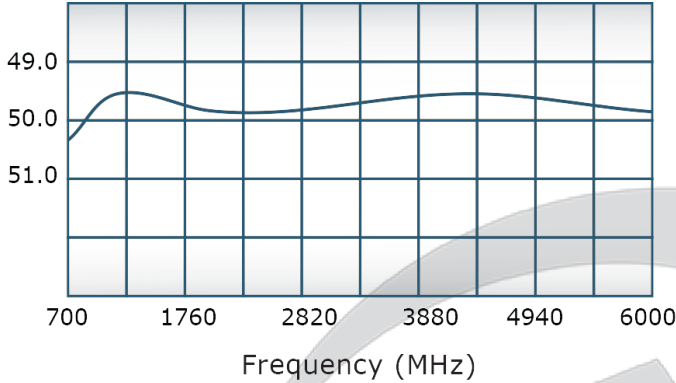


PRODUCT DATA SHEET

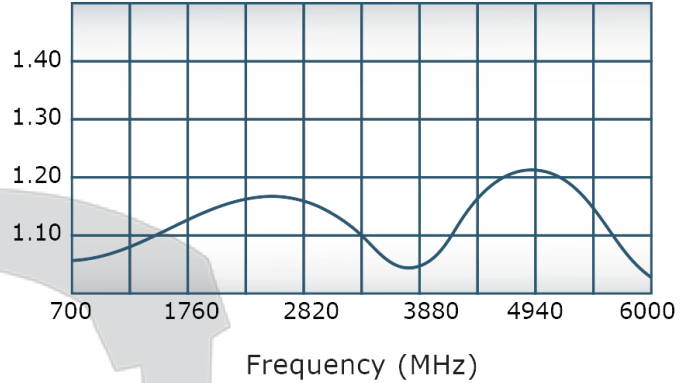
C10364

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

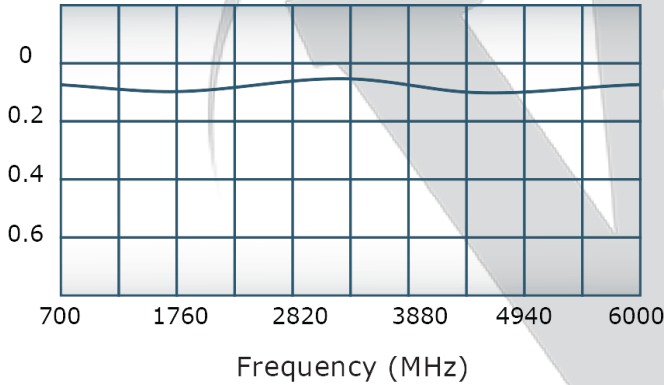
Coupling:



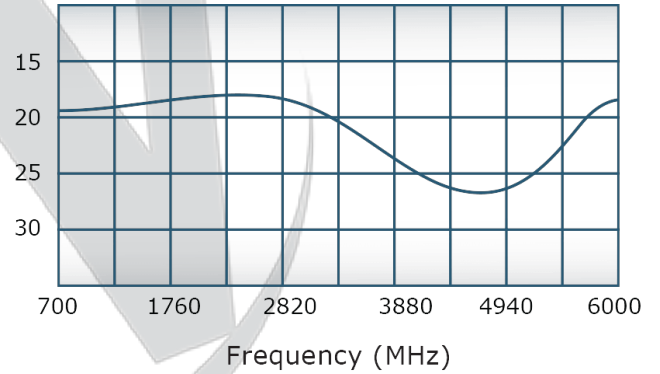
VSWR:



Insertion Loss:



Directivity:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

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

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**

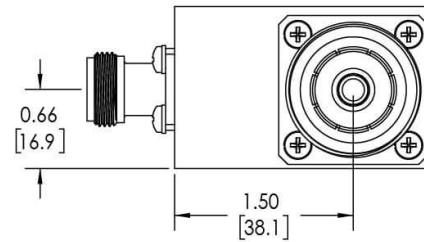
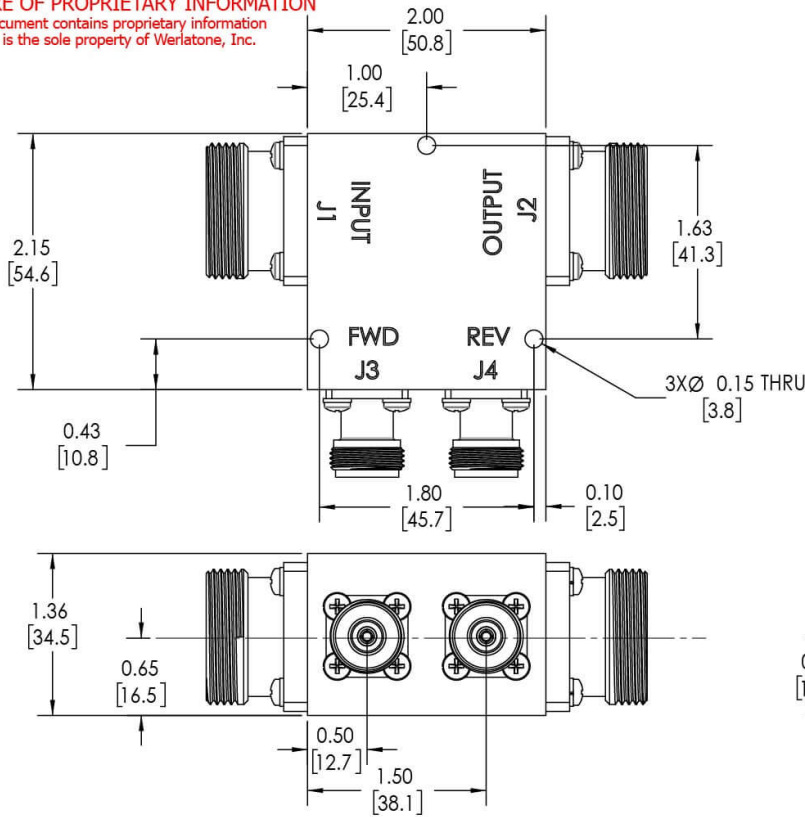
This document contains proprietary information which is the sole property of Werlatone, Inc.

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                | DWN  | DATE      | 17 Jon Barrett Rd<br>Patterson, NY 12563 |
| INTERPRET DRAWING IAW MIL-STD-100         | SD   | 3/25/2019 | WERLATONE SINCE 1965                     |
| DIMENSIONS FOR ASME Y14.5M-2009           | CHK  | DATE      |  |
| PARENTHEetical INFO FOR REF ONLY          | CS   | 3/25/2019 | TITLE                                    |
| DIMENSIONS ARE IN INCHES                  | ENGR | DATE      | OUTLINE                                  |
| DIMENSIONAL LINES APPLY BEFORE PROCESSES  | INFR | DATE      | SIZE CAGE CODE DWG NO                    |
| TOLERANCES:                               | QA   | DATE      | B 21316-500                              |
| ANGLES ± 2°                               | RLSE | DATE      | SCALE 1:1                                |
| 3 PL ± .005 [13]                          |      |           | REV A                                    |
| 2 PL ± .015 [38]                          |      |           | SHEET 1 OF 1                             |
| REMOVE ALL BURRS AND SHARP EDGES R.01 MAX |      |           |  |
| CONCENTRICITY MACHINED DIA: .002 FIM      |      |           |  |
| MACHINE TOOL MISMATCH .003 MAX            |      |           |  |

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of 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