
**PRODUCT DATA SHEET**
**C10762**

**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:            1000 - 6000 MHz  
 Power:                300 W CW  
 Coupling:            40 ± 1.0 dB Max.  
 Insertion Loss:      0.2 dB Max.  
 Flatness:            ± 0.5 dB Max.  
 VSWR (ML):        1.30:1 Max. (1.35:1 Max. with 7/16 ML connectors)  
 Directivity:          15 dB Min.

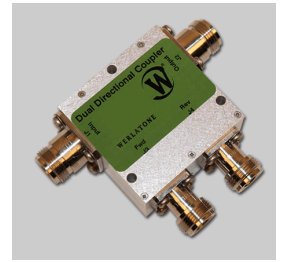
**Mechanical Specifications:**

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:                    2.0 x 2.0 x 1.06"

**Connector Configurations:**

| Model       | Input (J1)  | Output (J2) | Fwd (J3)    | Rev (J4)    |
|-------------|-------------|-------------|-------------|-------------|
| C10762-10   | N Female    | N Female    | N Female    | N Female    |
| C10762-12   | N Female    | N Female    | SMA         | SMA         |
| C10762-14   | N Male      | N Male      | N Female    | N Female    |
| C10762-20*  | 7/16 Female | 7/16 Female | 7/16 Female | 7/16 Female |
| C10762-22*  | 7/16 Female | 7/16 Female | SMA         | SMA         |
| C10762-612  | N Female    | N Male      | SMA         | SMA         |
| C10762-714  | N Male      | N Female    | N Female    | N Female    |
| C10762-727* | 7/16 Male   | 7/16 Female | N Female    | N Female    |

\*Starred options are 3.0 x 3.0 x 1.36"

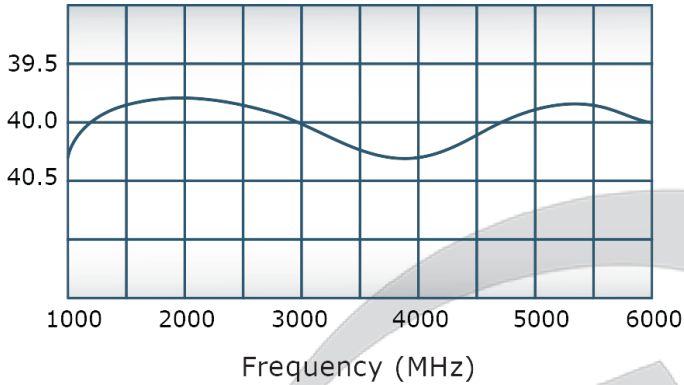


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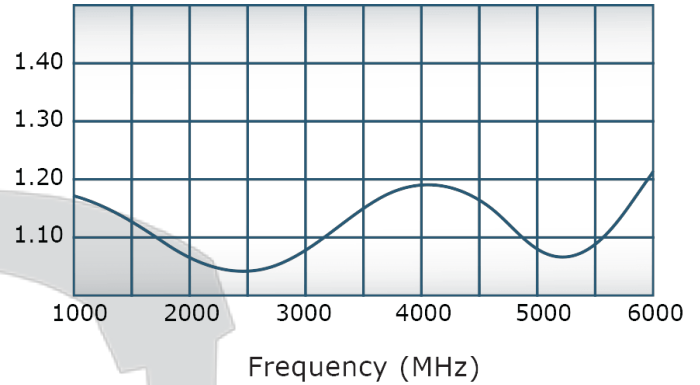
C10762

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

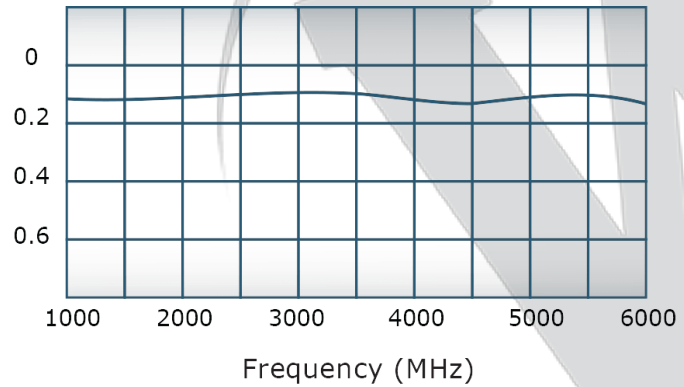
Coupling:



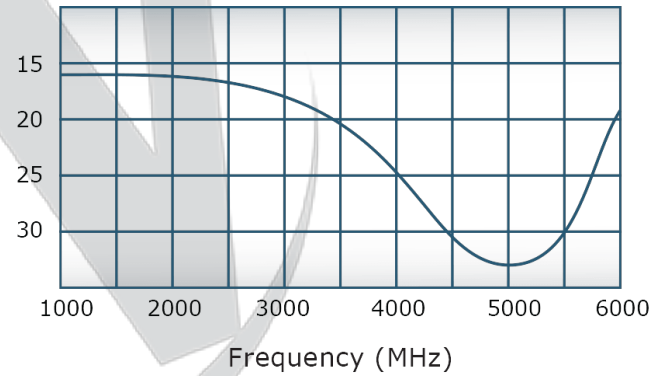
VSWR:



Insertion Loss:



Directivity:



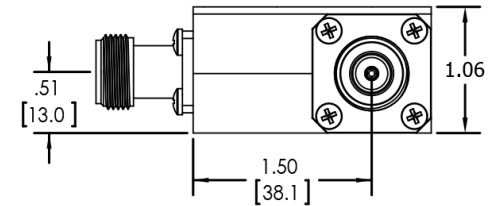
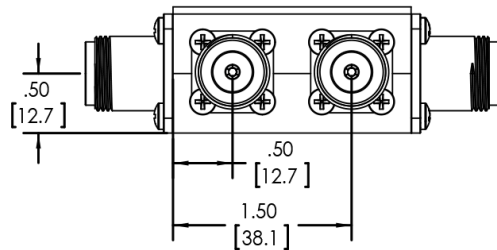
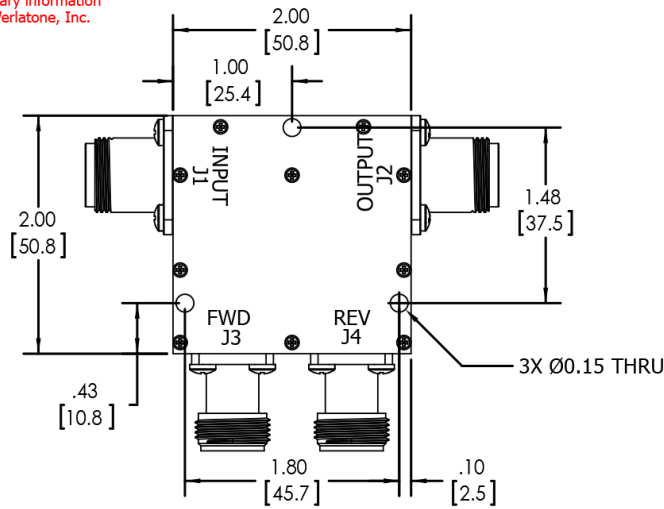
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Werlatone, Inc.

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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| REVISION HISTORY |                 |      |          |
|------------------|-----------------|------|----------|
| REV.             | REVISION RECORD | DATE | APPROVED |
|                  | PRE-RELEASE     |      |          |



|                            |   |      |           |  |
|----------------------------|---|------|-----------|--|
| UNLESS OTHERWISE SPECIFIED |   | DATE | 9/30/2014 | 17 Jon Barrett Rd<br>Patterson, NY 12563 |
| INT                        | INTERPRET DRAWING IAW MIL-STD-100         | SC   | 9/30/2014 | WERLATONE SINCE 1965                     |
| CS                         | DIMENSIONING PER ASME Y14.5M 2009         | CHK  | 9/30/2014 |  |
| CS                         | PARENTHEetical INFO FOR REF ONLY          | CS   | 9/30/2014 | TITLE                                    |
| CS                         | DIMENSIONS ARE IN INCHES (mm)             | DATE | 9/30/2014 | OUTLINE                                  |
| CS                         | DIMENSIONAL LIMITS APPLY BEFORE PROCESSES | DATE | 9/30/2014 | SIZE                                     |
| CS                         | TOLERANCES:                               | DATE | 9/30/2014 | CAGE CODE                                |
| CS                         | ANGLES ± 2°                               | DATE | 9/30/2014 | DWG NO                                   |
| CS                         | 3 PL ± .005 (L3)                          | DATE | 9/30/2014 | REV                                      |
| CS                         | 2 PL ± .015 (L4)                          | DATE | 9/30/2014 | B  |
| CS                         | REMOVE ALL BURRS AND SHARP EDGES R.01 MAX | DATE | 9/30/2014 | 28812                                    |
| CS                         | CONCENTRICITY MACHINED DIA. .002 FIM      | DATE | 9/30/2014 | 21250-500                                |
| CS                         | MACHINE TOOL HIGHMATCH .003 MAX           | DATE | 9/30/2014 | 1  |
| CS                         |   | DATE | 9/30/2014 | 1:1                                      |
| CS                         |   | DATE | 9/30/2014 | SHEET 1 OF 1                             |

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