
PRODUCT DATA SHEET
C10292

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: 800 - 3000 MHz
 Power: 200 W CW
 Coupling: 50 ± 1.0 dB Max.
 Insertion Loss: 0.2 dB Max.
 Flatness: ± 0.75 dB Max.
 VSWR (ML): 1.30:1 Max.
 Directivity: 20 dB Min.

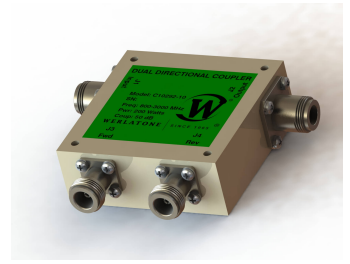
Mechanical Specifications:

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: 3.0 x 3.0 x 1.09"

Connector Configurations:

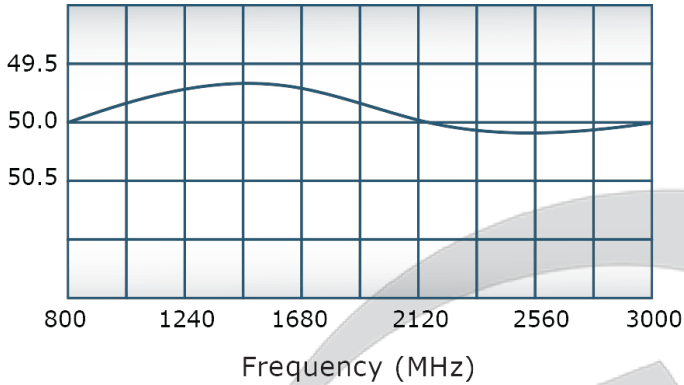
| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|-------------|-------------|-------------|----------|----------|
| C10292-10 | N Female | N Female | N Female | N Female |
| C10292-12 | N Female | N Female | SMA | SMA |
| C10292-13 | N Female | N Female | BNC | BNC |
| C10292-20* | 7/16 Female | 7/16 Female | N Female | N Female |
| C10292-22* | 7/16 Female | 7/16 Female | SMA | SMA |
| C10292-23* | 7/16 Female | 7/16 Female | BNC | BNC |
| C10292-610 | N Female | N Male | N Female | N Female |
| C10292-627* | 7/16 Female | 7/16 Male | N Female | N Female |
| C10292-727* | 7/16 Male | 7/16 Female | N Female | N Female |
| C10292-728* | 7/16 Male | 7/16 Female | SMA | SMA |

*Starred Options are 3.0 x 3.0 x 1.59"

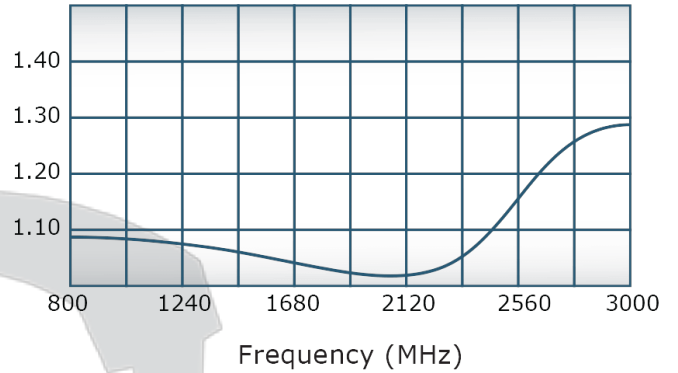


Performance Data (Specifications subject to change without notice):

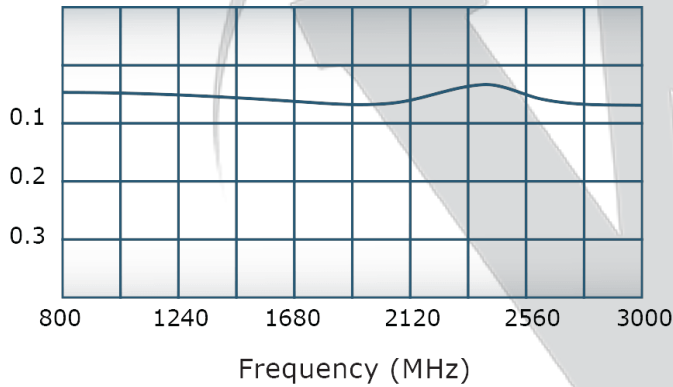
Coupling:



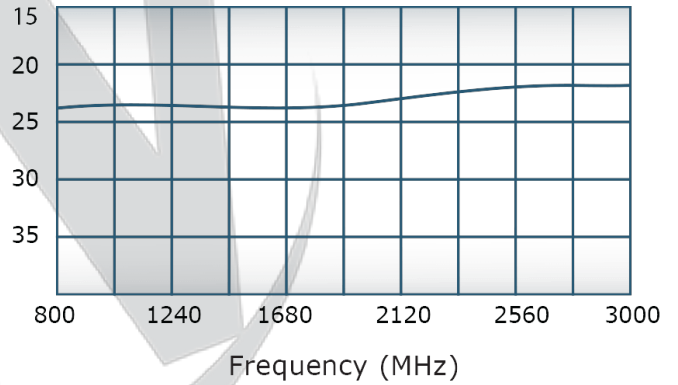
VSWR:



Insertion Loss:



Directivity:

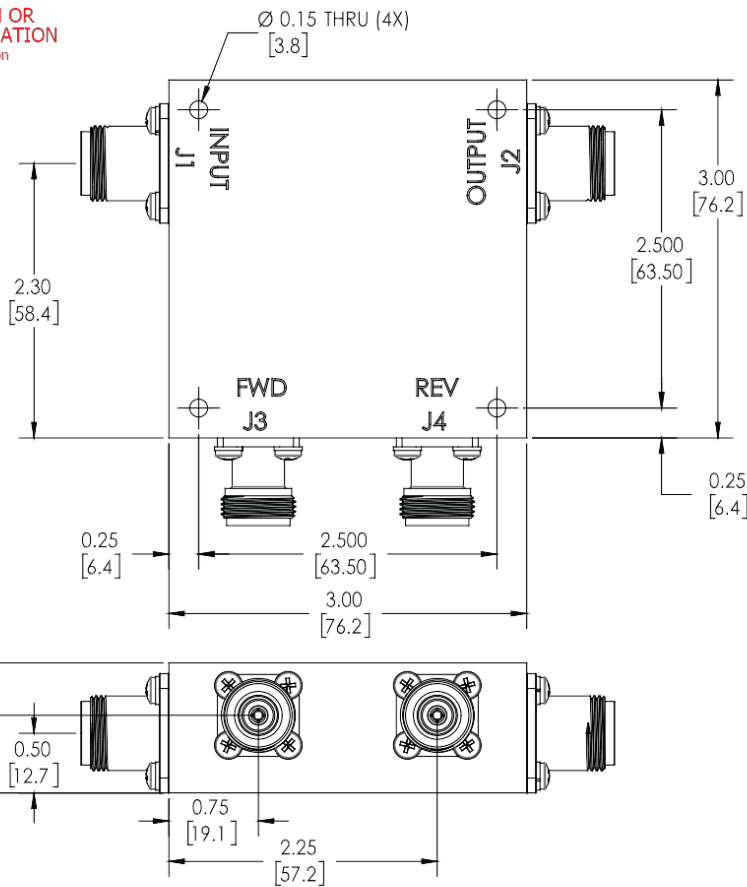


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| REVISION HISTORY | | | |
|------------------|-----------------|----------|----------|
| REV. | REVISION RECORD | DATE | APPROVED |
| A | ECN 9696 | 11/27/18 | RB |

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

| | | | | |
|--|--|------|----------|---|
| UNLESS OTHERWISE SPECIFIED | | OWN | DATE | WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563 |
| • INTERPRET DRAWING (AWW MIL-STD-100) • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHESES INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL UNITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES: ± 2° 3 PL. ± .005 (1.3) 2 PL. ± .015 (1.3) • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL IMPACT: .003 MAX | | CHK | DATE | |
| NEXT ASSY | | ENGR | DATE | TITLE |
| USED ON | | MJ | 7/5/2001 | OUTLINE |
| APPLICATION | | MFR | DATE | SIZE |
| THIRD ANGLE PROJECTION | | QA | DATE | CAGE CODE |
| | | RLSE | DATE | DAWG NO |
| | | | | REV |
| | | | | B |
| | | | | 10379-505 |
| | | | | SCALE |
| | | | | 1:1 |
| | | | | SHEET 1 OF 1 |

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