


PRODUCT DATA SHEET
C1449

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: 1 - 100 MHz
Power: 10,000 W CW
Coupling: 70 ± 1.0 dB Max.
Insertion Loss: 0.05 dB Max.
Flatness: ± 0.75 dB Max.
VSWR (ML): 1.10:1 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: 6.0 x 3.0 x 2.24"

Connector Configurations:

| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|------------|-------------|-------------|----------|----------|
| C1449-20 | 7/16 Female | 7/16 Female | N Female | N Female |
| C1449-22 | 7/16 Female | 7/16 Female | SMA | SMA |
| C1449-23 | 7/16 Female | 7/16 Female | BNC | BNC |
| C1449-30 | LC Female | LC Female | N Female | N Female |
| C1449-33 | LC Female | LC Female | BNC | BNC |
| C1449-63 | HN Female | HN Female | SMA | SMA |
| C1449-64 | HN Female | HN Female | BNC | BNC |
| C1449-503 | SQS Female | SQS Female | BNC | BNC |
| C1449-728 | 7/16 Male | 7/16 Female | SMA | SMA |
| C1449-754 | HN Female | HN Male | SMA | SMA |
| C1449-QC-2 | QC Block | QC Block | SMA | SMA |



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Model C1449

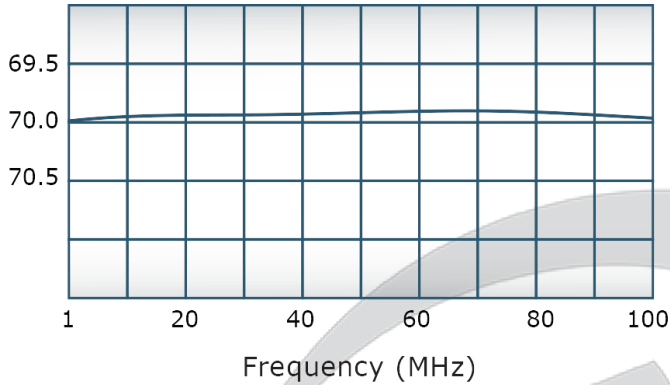


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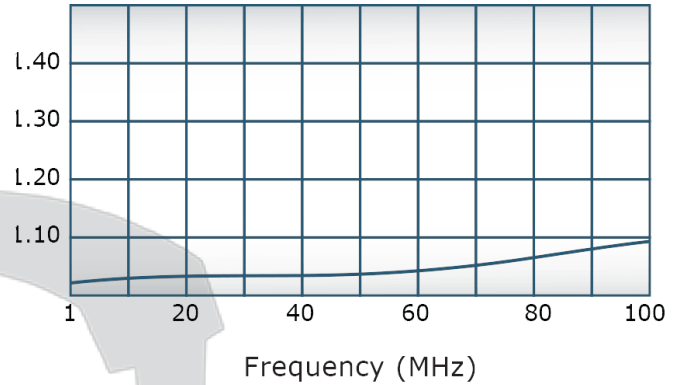
C1449

Performance Data (Specifications subject to change without notice):

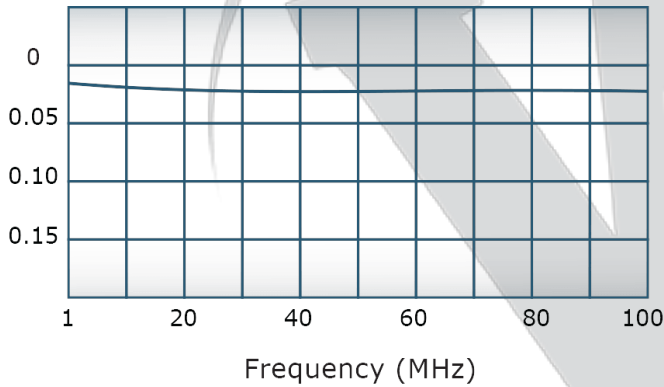
Coupling:



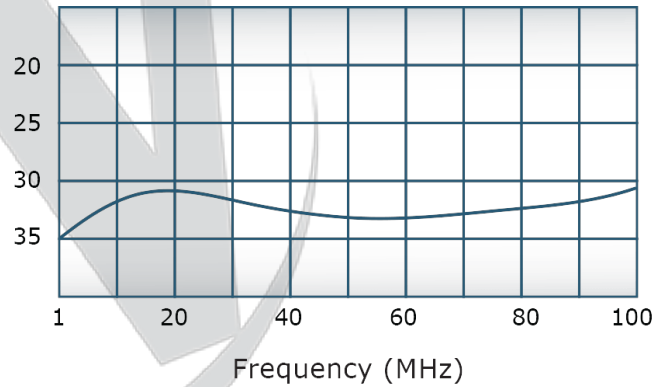
VSWR:



Insertion Loss:



Directivity:

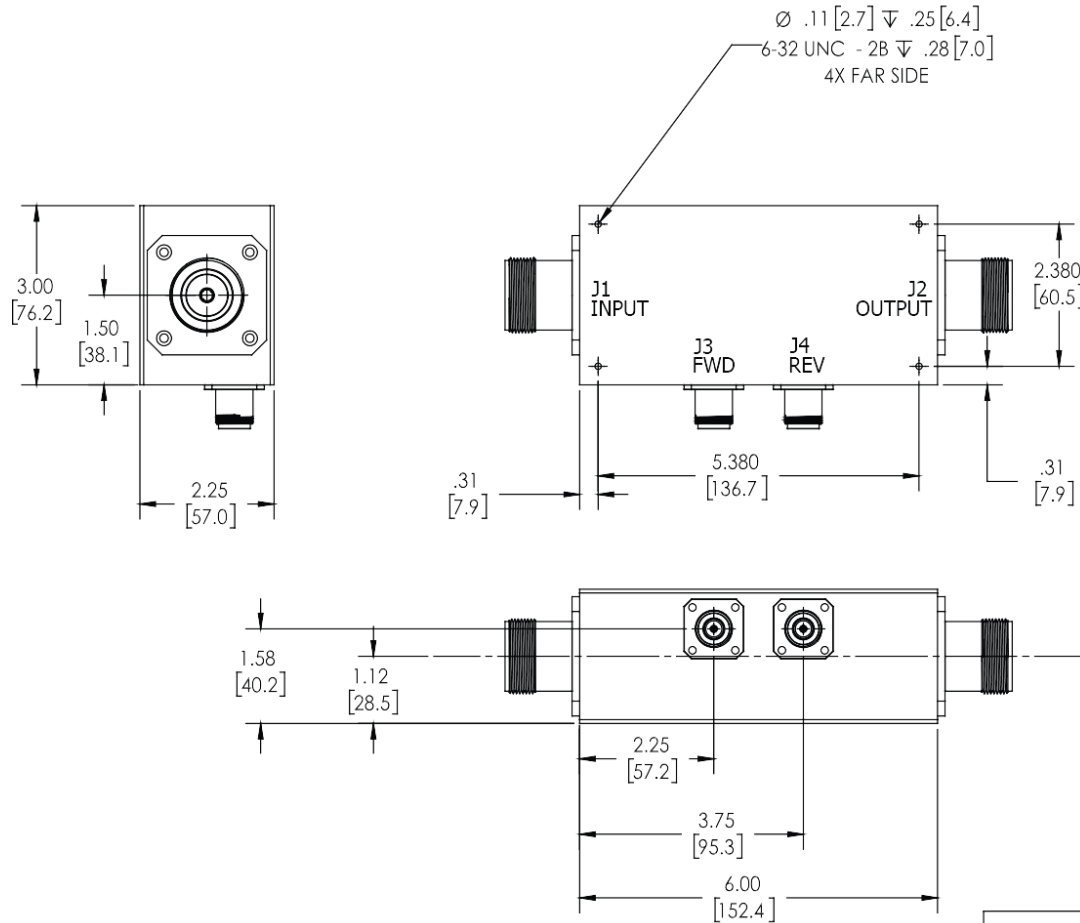


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| REVISION HISTORY | | | |
|------------------|-----------------|------------|----------|
| REV. | REVISION RECORD | DATE | APPROVED |
| - | INITIAL RELEASE | 10/29/2018 | CS |



| | | | | | | | |
|-------------|--|---------------------------------------------|--|--------------|------------|------------------------------------------|--|
| | | UNLESS OTHERWISE SPECIFIED | | OWN | DATE | 17 Jon Barrett Rd Patterson, NY 12563 | |
| | | • INTERPRET DRAWING JAW MIL-STD-100 | | PLP | 10/25/2018 | WERLATONE SINCE 1965 | |
| | | • DIMENSIONING PER ASME Y14.3M-2009 | | CHK | DATE | | |
| | | • PRELIMINARY DIMS FOR REF ONLY | | CS | 10/29/2018 | TITLE | |
| | | • DIMENSIONS ARE IN INCHES (mm) | | ENGR | DATE | SIZE CASE CODE DWG NO | |
| | | • DIMENSIONAL UNITS APPLY BEFORE PROCESSES | | INFR | DATE | | |
| | | • TOLERANCES: | | QA | DATE | B 28812 10396-500 | |
| | | • ANGLES: ± 2° | | RLSE | DATE | | |
| | | • 2 PL ± .005 (1.3) | | | | | |
| | | • 2 PL ± .015 (4) | | | | | |
| | | • REMOVE ALL BURRS AND SHARP EDGES R.03 MAX | | | | | |
| | | • CONCENTRICITY MACHINED DIA: .002 FIM | | | | | |
| | | • MACHINE TOOL REPAIR: .003 MAX | | | | | |
| NEXT ACTION | | USED ON | | SCALE 1:2 | | | |
| APPLICATION | | THIRD ANGLE PROJECTION | | SHEET 1 OF 1 | | | |

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