



PRODUCT DATA SHEET

C9107

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: 20 - 1000 MHz
Power: 1000 W CW
Coupling: 53 ± 1.0 dB Max.
Insertion Loss: 0.4 dB Max.
Flatness: ± 1.0 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: 4.45 x 2.4 x 1.59"

Connector Configurations:

| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|------------|-------------|-------------|----------|----------|
| C9107-10 | N Female | N Female | N Female | N Female |
| C9107-12 | N Female | N Female | SMA | SMA |
| C9107-20 | 7/16 Female | 7/16 Female | N Female | N Female |
| C9107-22 | 7/16 Female | 7/16 Female | SMA | SMA |
| C9107-23 | 7/16 Female | 7/16 Female | BNC | BNC |
| C9107-41 | SC Female | SC Female | N Female | N Female |
| C9107-43 | SC Female | SC Female | SMA | SMA |
| C9107-712 | N Male | N Female | SMA | SMA |
| C9107-714 | N Male | N Female | N Female | N Female |
| C9107-7755 | 7/16 Female | SC Female | SMA | SMA |

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Werlatone, Inc.

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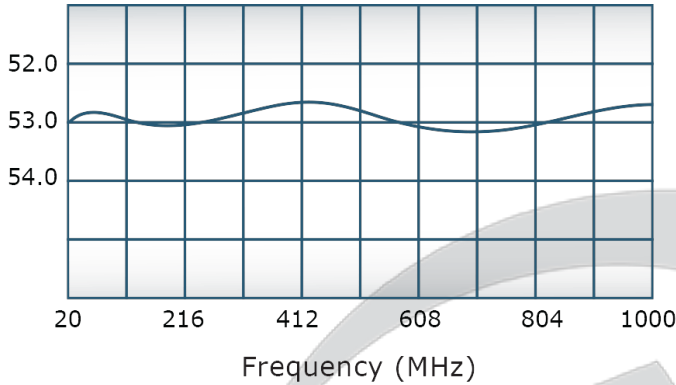


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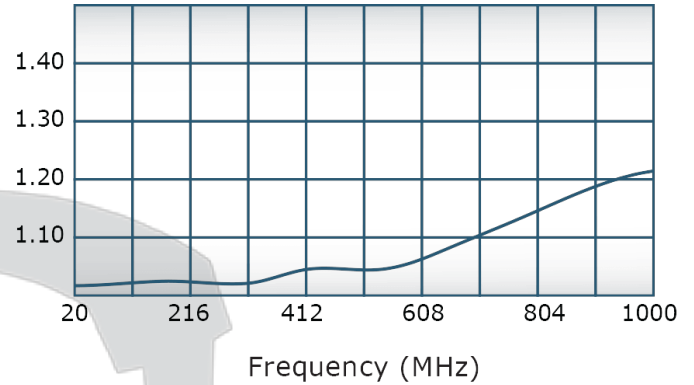
C9107

Performance Data (Specifications subject to change without notice):

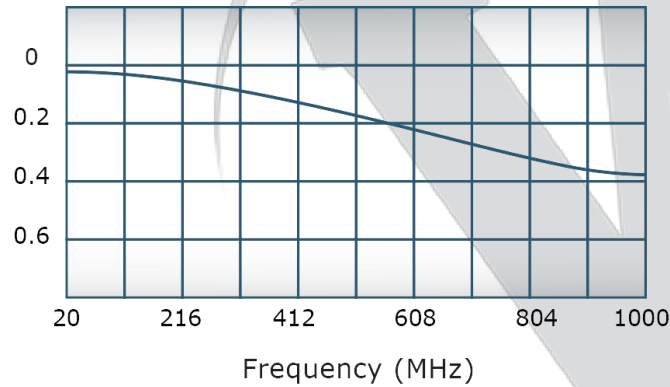
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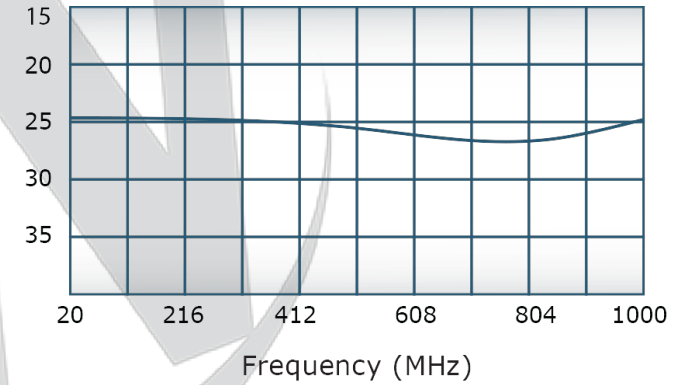
VSWR:



Insertion Loss:



Directivity:



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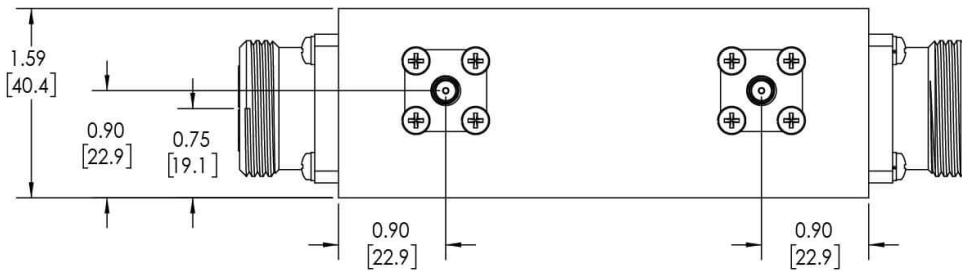
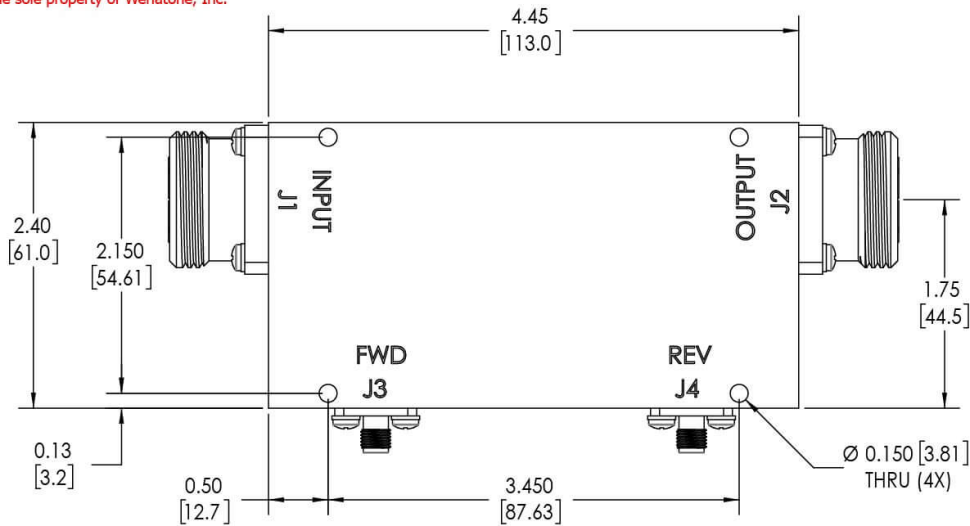
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| REVISION HISTORY | | | |
|------------------|-----------------|---------|----------|
| REV. | REVISION RECORD | DATE | APPROVED |
| A | ECN 9696 | 3/25/19 | RB |

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: SMA FEMALE



| | | | | |
|---|---------|------------------------|----------------------|--|
| UNLESS OTHERWISE SPECIFIED | | DWN | DATE | 17 Jon Barrett Rd Patterson, NY 12563 |
| INTERPRET DRAWING IAW MIL-STD-100 | SD | 3/25/2019 | | |
| DIMENSIONS PER ASME Y14.5M-2009 | CHK | DATE | WERLATONE SINCE 1965 | |
| PARENTHEetical INFO FOR REF ONLY | CS | 3/25/2019 | TITLE | |
| DIMENSIONS ARE IN INCHES | ENGR | DATE | OUTLINE | |
| DIMENSIONAL LIMITS APPLY BEFORE PROCESSES | INFR | DATE | SIZE | CAGE CODE |
| TOLERANCES: | QA | DATE | B | 20828-500 |
| ANGLES = 2° | RLSE | DATE | SCALE | 1:1 |
| 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. | | | | |
| NEXT ASSY | USED ON | THIRD ANGLE PROJECTION | | REV A |
| APPLICATION | | | | SHEET 1 OF 1 |

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