


PRODUCT DATA SHEET
C9613

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 - 500 MHz
 Power: 200 W CW
 Coupling: 50 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 0.5 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: 5.2 x 2.67 x 1.69"

Connector Configurations:

| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|-----------|------------|-------------|----------|----------|
| C9613-10 | N Female | N Female | N Female | N Female |
| C9613-12 | N Female | N Female | SMA | SMA |
| C9613-13 | N Female | N Female | BNC | BNC |
| C9613-102 | SMA | SMA | SMA | SMA |
| C9613-304 | TNC Male | TNC Female | SMA | SMA |
| C9613-610 | N Female | N Male | N Female | N Female |
| C9613-614 | N Female | N Male | SMA | SMA |
| C9613-714 | N Male | N Female | N Female | N Female |

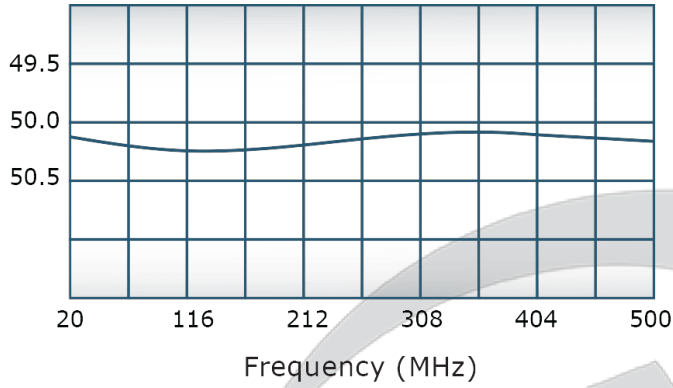


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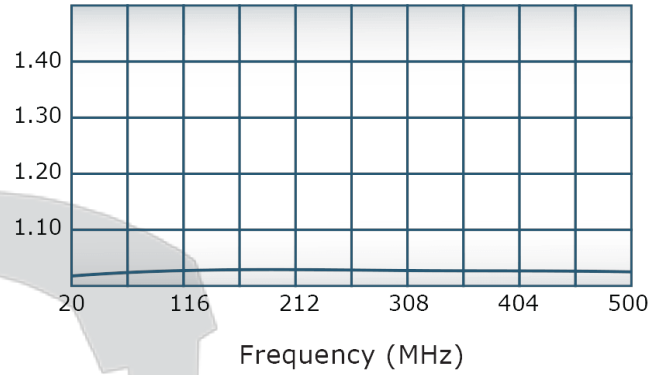
C9613

Performance Data (Specifications subject to change without notice):

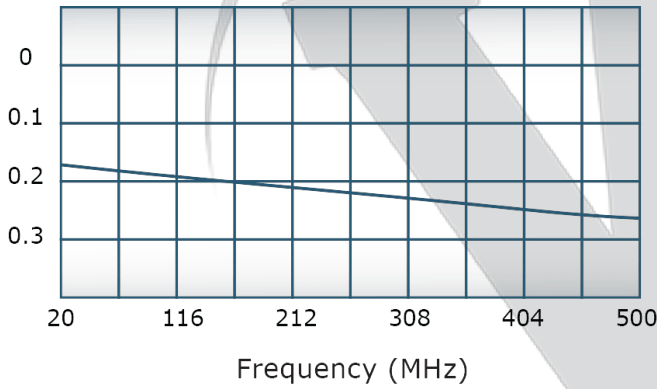
Coupling:



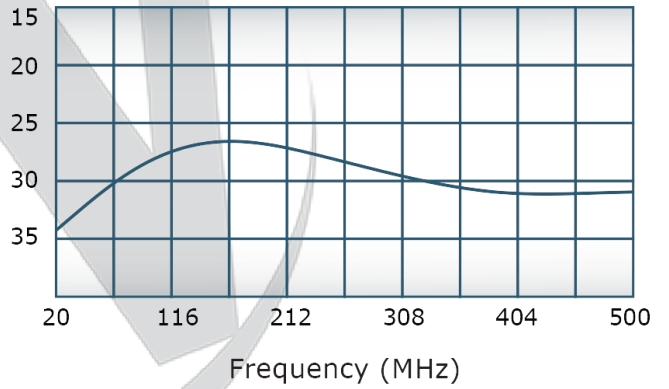
VSWR:



Insertion Loss:



Directivity:



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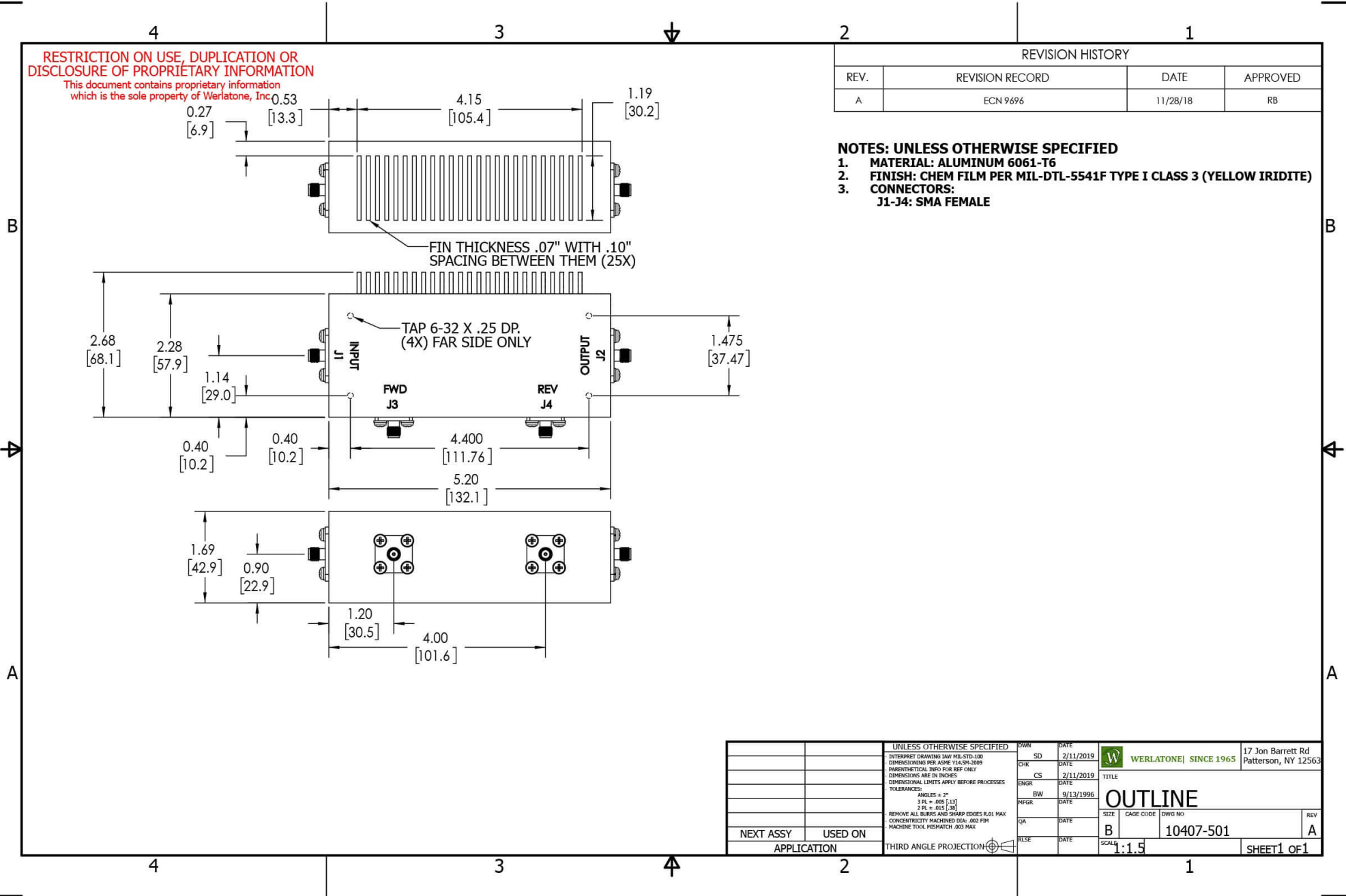
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| REVISION HISTORY | | | |
|------------------|-----------------|----------|----------|
| REV. | REVISION RECORD | DATE | APPROVED |
| A | ECN 9696 | 11/28/18 | RB |

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:
J1-J4: SMA FEMALE**



| | | | |
|---|------|-----------|--|
| UNLESS OTHERWISE SPECIFIED | | DATE | 17 Jon Barrett Rd Patterson, NY 12563 |
| INTERRUPT DRAWING IAW MIL-STD-100 | SD | 2/11/2019 | W WERLATONE SINCE 1965 |
| DIMENSIONS PER ASME Y14.5M-2009 | CHK | DATE | |
| PARENTHEetical INFO FOR REF ONLY | CS | 2/11/2019 | TITLE |
| DIMENSIONS ARE IN INCHES | ENGR | DATE | OUTLINE |
| DIMENSIONAL LINES APPLY BEFORE PROCESSES | BW | 9/13/1996 | SIZE CAGE CODE DWG NO |
| TOLERANCES: | QA | DATE | B 10407-501 |
| ANGLES ± 2° | RLSE | DATE | SCALE 1:1.5 |
| 3 PL ± .005 (1.3) | | | REV A |
| 2 PL ± .015 (1.38) | | | SHEET 1 OF 1 |
| REMOVE ALL BURRS AND SHARP EDGES R.01 MAX | | | |
| CONCENTRICITY MACHINED DIA: .002 FIM | | | |
| MACHINE TOOL MISMATCH .003 MAX | | | |

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