


PRODUCT DATA SHEET
C8384

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: 2000 - 6000 MHz
 Power: 100 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 0.75 dB Max.
 VSWR (ML): 1.30:1 Max.
 Directivity: 15 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: 1.2 x 0.9 x 0.5"

Connector Configurations:

| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|-----------|------------|-------------|----------|----------|
| C8384-102 | SMA | SMA | SMA | SMA |

Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

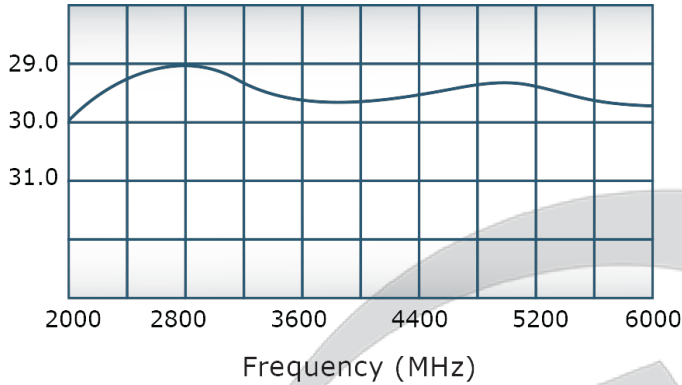


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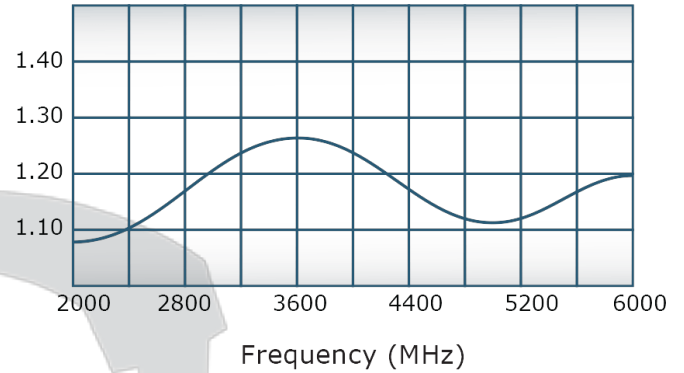
C8384

Performance Data (Specifications subject to change without notice):

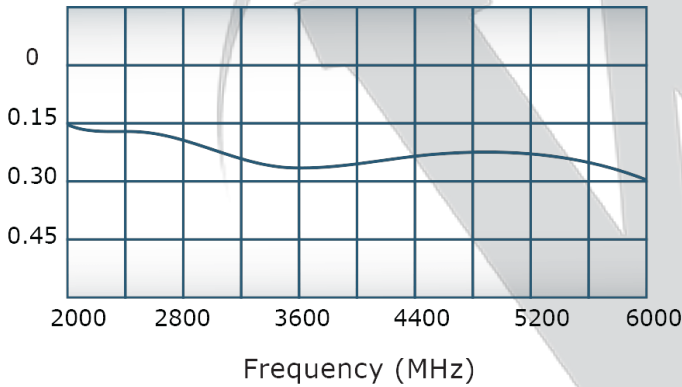
Coupling:



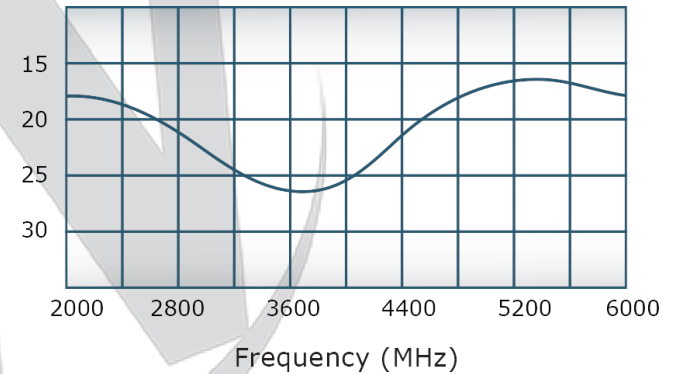
VSWR:



Insertion Loss:



Directivity:

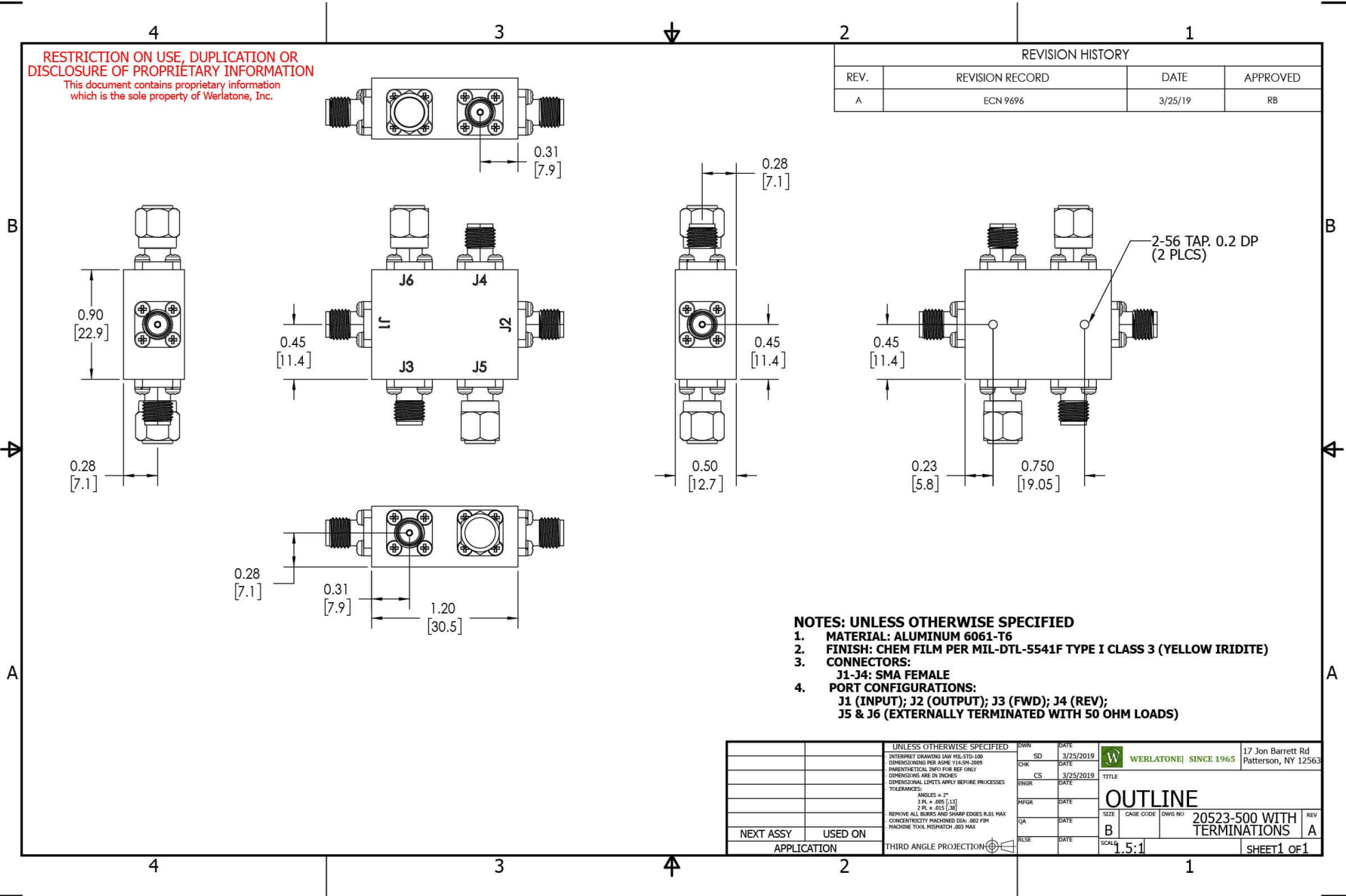


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| REVISION HISTORY | | | |
|------------------|-----------------|---------|----------|
| REV. | REVISION RECORD | DATE | APPROVED |
| A | ECN 9696 | 3/25/19 | RB |



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1-J4: SMA FEMALE
J1 (INPUT); J2 (OUTPUT); J3 (FWD); J4 (REV);
J5 & J6 (EXTERNALLY TERMINATED WITH 50 OHM LOADS)

| | | | | |
|---|---------|------------------------|-----------|--|
| UNLESS OTHERWISE SPECIFIED | | DWN | DATE | WERLATONE SINCE 1965 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 | TITLE |
| PARENTHEetical INFO FOR REF ONLY | | CS | 3/25/2019 | |
| DIMENSIONS ARE IN INCHES | | ENGR | DATE | OUTLINE SIZE CAGE CODE DWG NO B 20523-500 WITH TERMINATIONS |
| DIMENSIONAL LIMITS APPLY BEFORE PROCESSES | | QA | DATE | |
| TOLERANCES: | | RLSE | DATE | REV A |
| ANGLES = 2° | | SCALE 1.5:1 | | |
| 3 PL ± .005 (1.3) | | SHEET 1 OF 1 | | |
| 2 PL ± .015 (1.38) | | | | |
| 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 | | |
| APPLICATION | | | | |

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