

PRODUCT DATA SHEET

C6407

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: 800 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.3 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 20 dB Min.

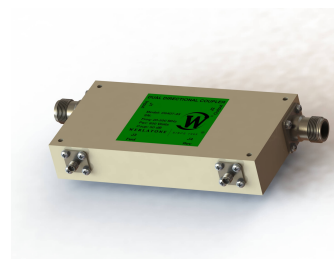
Mechanical Specifications:

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 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6407-10	N Female	N Female	N Female	N Female
C6407-12	N Female	N Female	SMA	SMA
C6407-13	N Female	N Female	BNC	BNC
C6407-43	SC Female	SC Female	SMA	SMA
C6407-714	N Male	N Female	N Female	N Female

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.

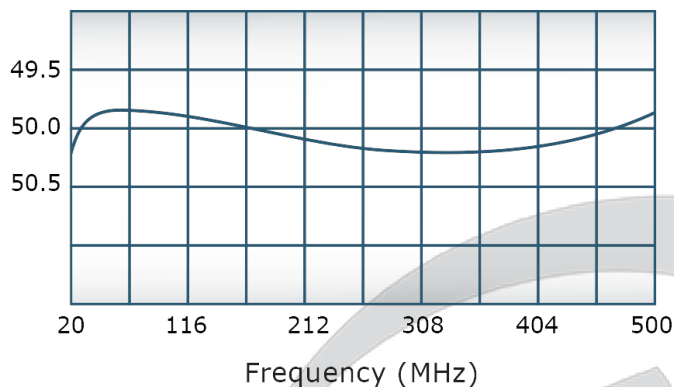


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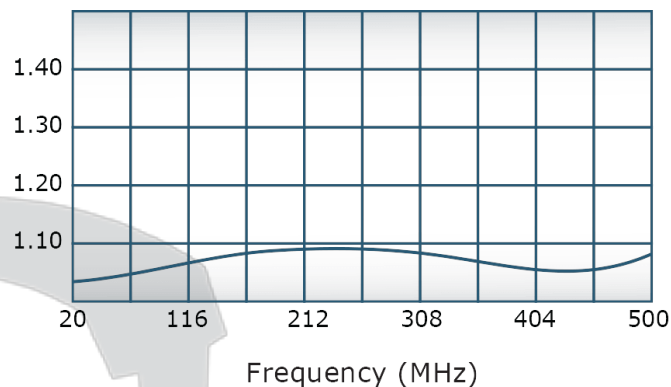
C6407

Performance Data (Specifications subject to change without notice):

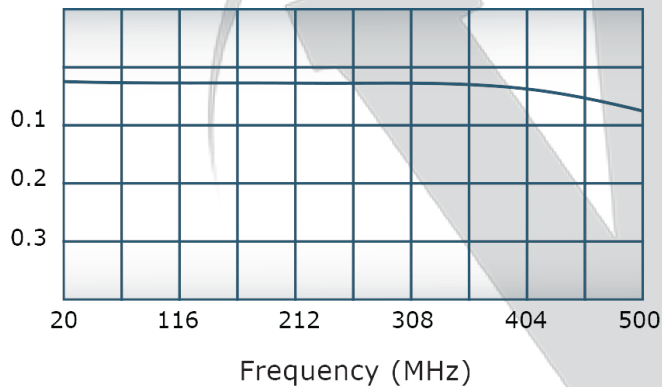
Coupling:



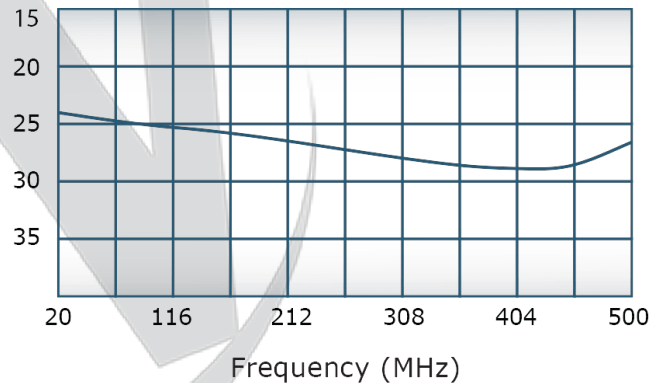
VSWR:

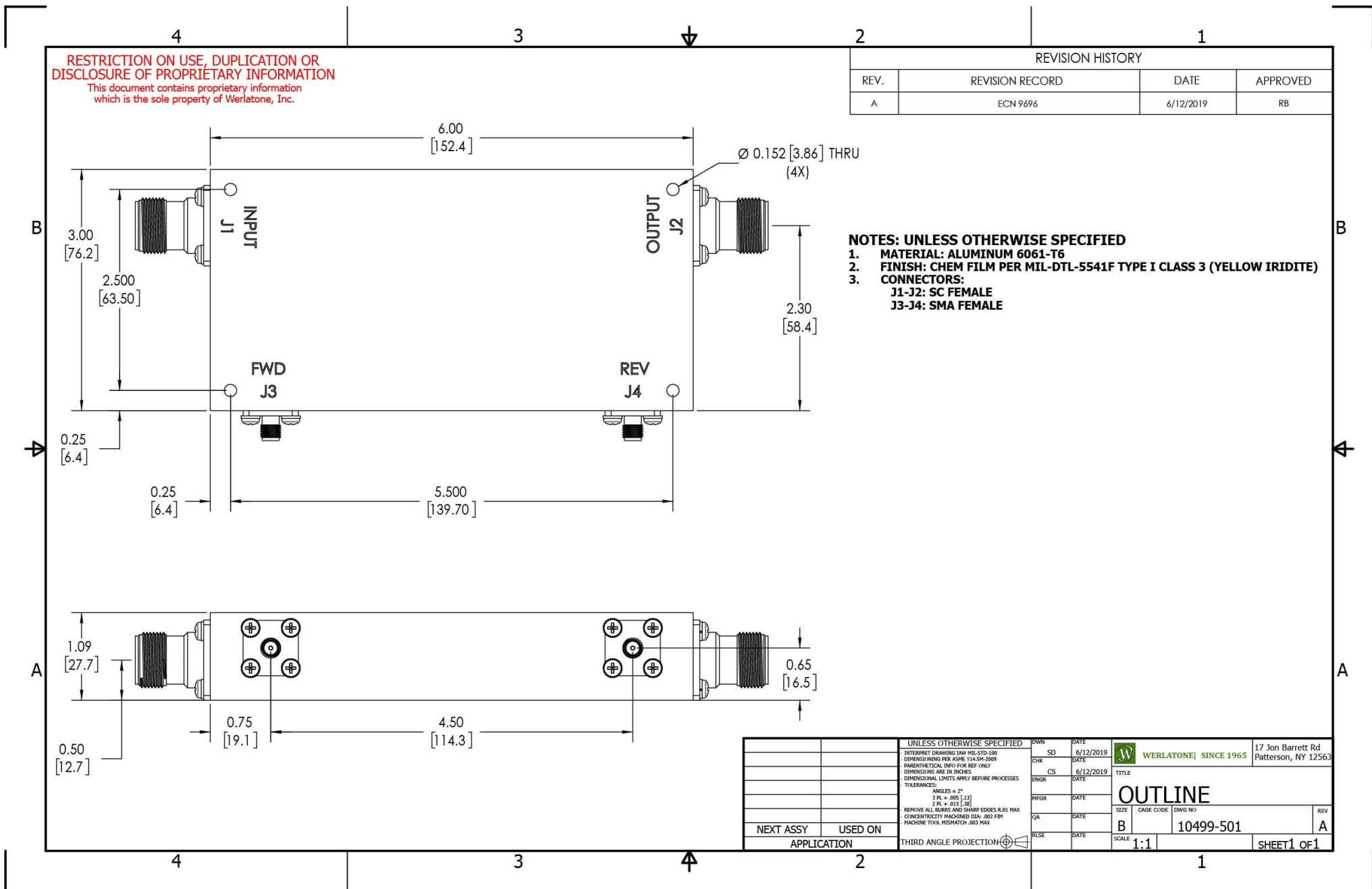


Insertion Loss:



Directivity:





A B

4 3 2 1

UNLESS OTHERWISE SPECIFIED

INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-1900
DIMENSIONS FOR ASME Y14.5M-2009
PARENTHESES FOR REF ONLY
DIMENSIONS ARE IN INCHES
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
TOLERANCES:
ANGLES ± 2°
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

THIRD ANGLE PROJECTION

4 3 2 1

4 3 2 1

SD	DATE	6/12/2019	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
CHK	DATE	6/12/2019		
ENGR	DATE			
INFR	DATE			
QA	DATE			
RLSE	DATE			

OUTLINE

SIZE: B CAGE CODE: 10499-501 DWG NO: 10499-501 REV: A

SCALE: 1:1 SHEET 1 OF 1

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