



PRODUCT DATA SHEET

C1407

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: 100 - 500 MHz
Power: 250 W CW
Coupling: 30 ± 1.0 dB Max.
Flatness: ± 0.75 dB Max.
Insertion Loss: 0.25 dB Max.
VSWR (ML): 1.25:1 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: 5.0 x 2.0 x 1.87"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1407-10	N Female	N Female	N Female	N Female
C1407-12	N Female	N Female	SMA	SMA
C1407-13	N Female	N Female	BNC	BNC
C1407-102	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.



WERLATONE

Model C1407

Connectorized Directional Couplers

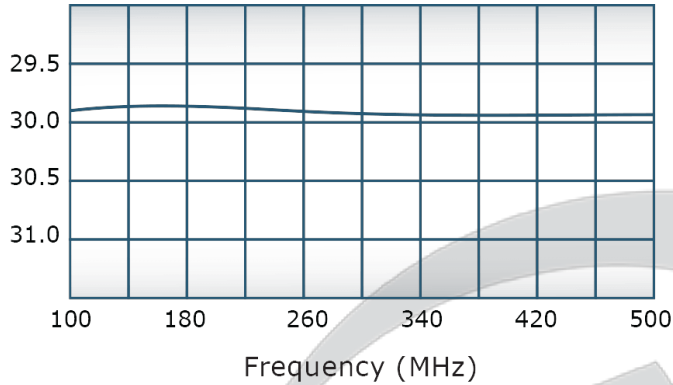


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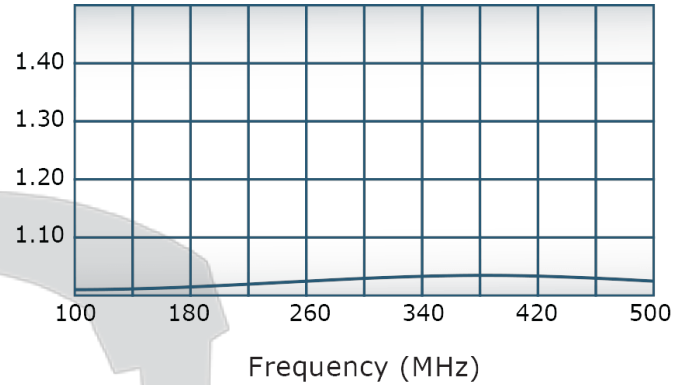
C1407

Performance Data (Specifications subject to change without notice):

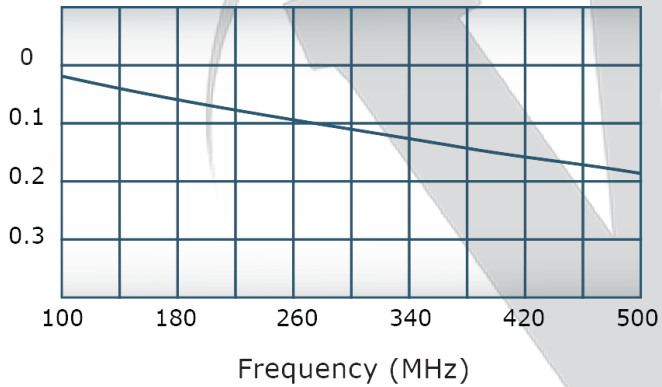
Coupling:



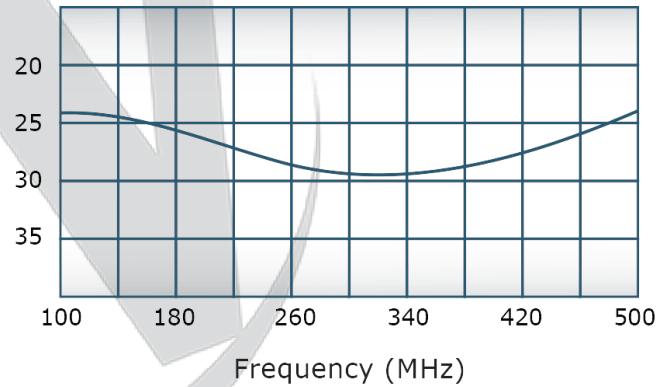
VSWR:



Insertion Loss:



Directivity:



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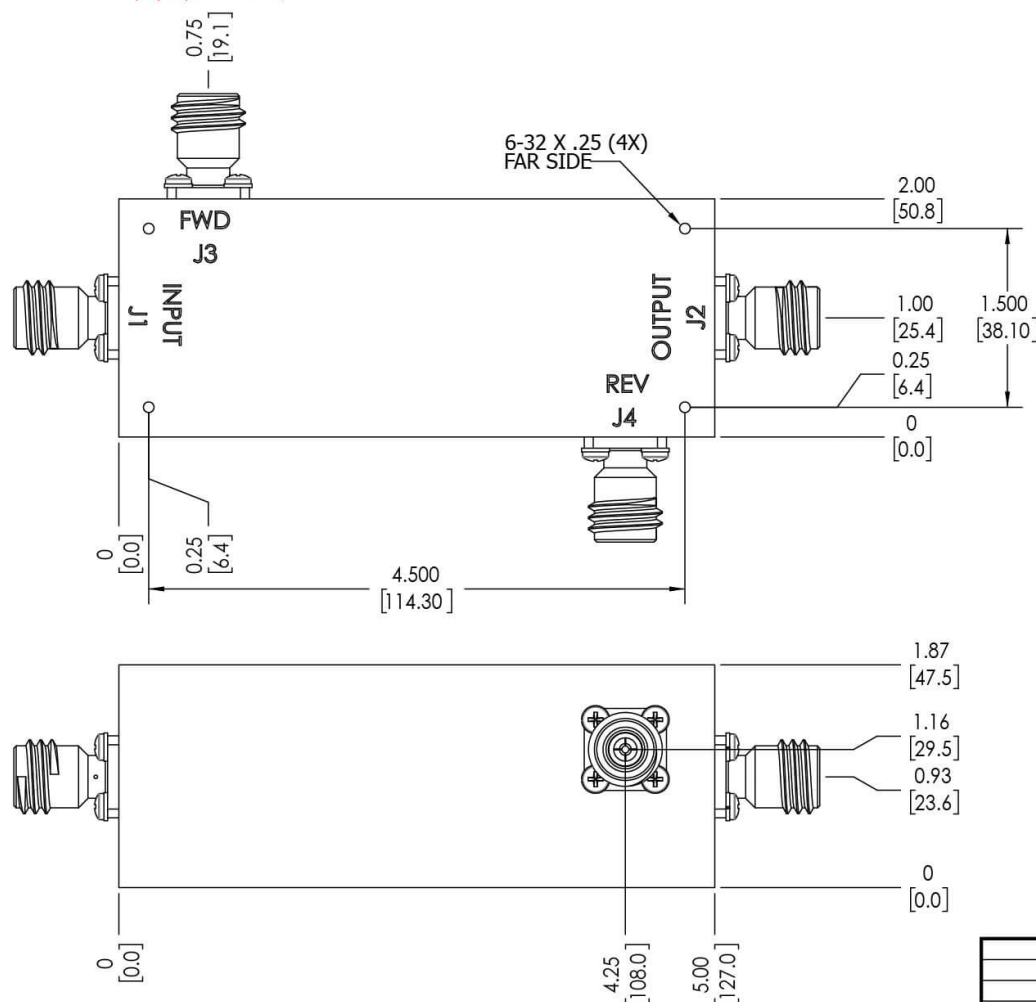
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/14/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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



UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING IN ACCORDANCE WITH DIMENSIONS FOR PER ASME Y14.5-2009 PARENT/CHILD DIMS FOR BEST ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES: ANGLES = ± 0.005 3 PL. ± 0.005 [13] 2 PL. ± 0.015 [30] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. ± 0.02 PAK MACHINE TOOL RESTRAINT .000 MAX		DWN DATE 5/14/2019 SD DATE CHR DATE CS DATE 5/14/2019 ENGR DATE REGR DATE QA DATE RLSE DATE	 WERLATONE SINCE 1965 TITLE OUTLINE SIZE CAGE CODE DWG NO 10026-505 SCALE 1:1 SHEET 1 OF 1	17 Jon Barrett Rd Patterson, NY 12563
NEXT ASSY USED ON APPLICATION	THIRD ANGLE PROJECTION			

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