


PRODUCT DATA SHEET
C1373

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: 1.5 - 80 MHz
Power: 750 W CW
Coupling: 30 ± 1.0 dB Max.
Flatness: ± 0.2 dB Max.
Insertion Loss: 0.15 dB Max.
VSWR (ML): 1.10:1 Max.
Directivity: 25 dB Min.

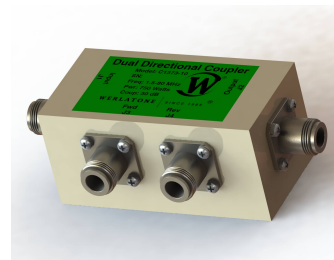
Mechanical Specifications:

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: 4.0 x 2.0 x 1.88"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1373-10	N Female	N Female	N Female	N Female
C1373-12	N Female	N Female	SMA	SMA
C1373-13	N Female	N Female	BNC	BNC
C1373-102	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.

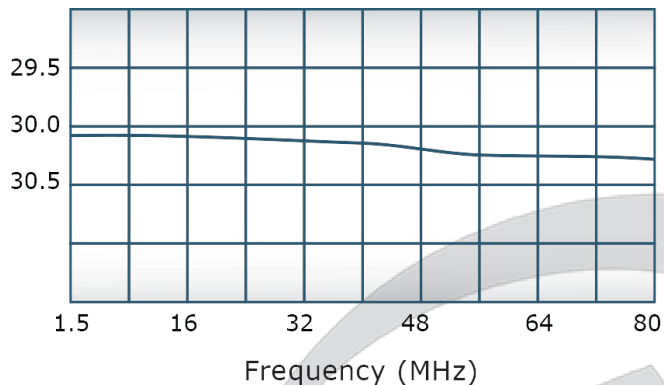


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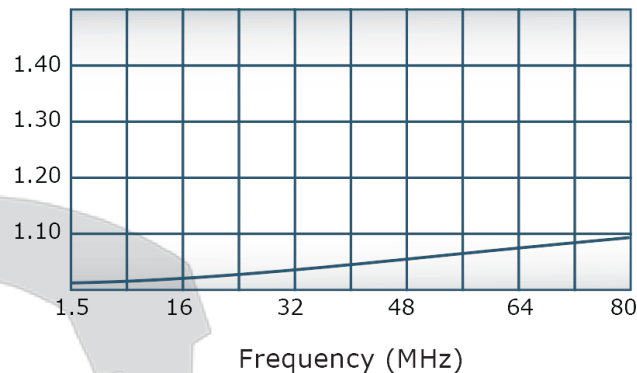
C1373

Performance Data (Specifications subject to change without notice):

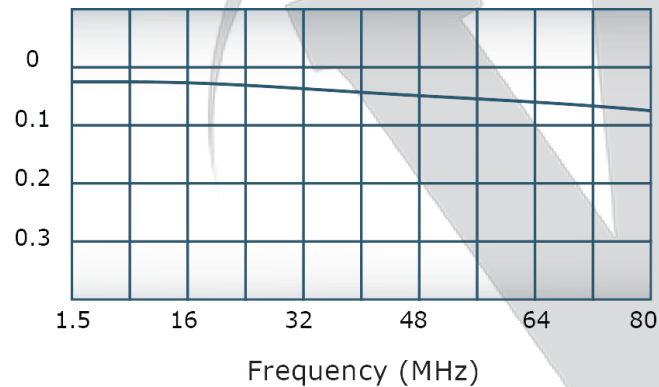
Coupling:



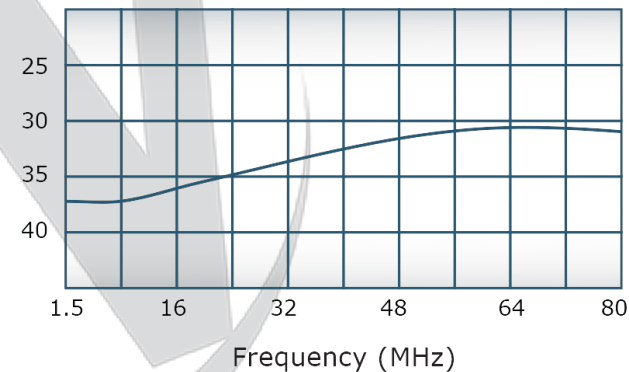
VSWR:

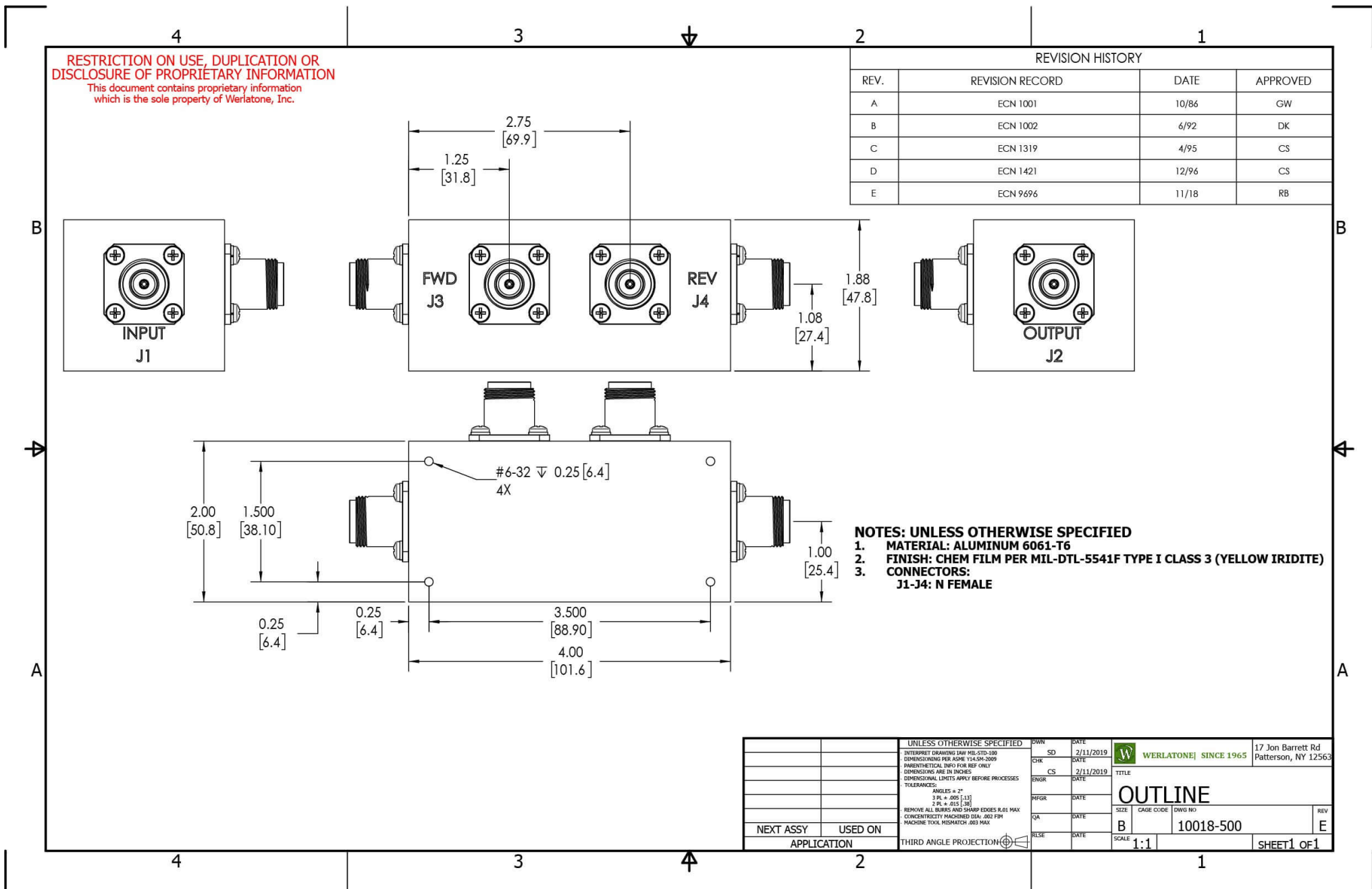


Insertion Loss:





Directivity:





REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1001	10/86	GW
B	ECN 1002	6/92	DK
C	ECN 1319	4/95	CS
D	ECN 1421	12/96	CS
E	ECN 9696	11/18	RB

<div>UNLESS OTHERWISE SPECIFIED</div> <div>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</div> <div>DIMENSIONS PER ASME Y14.5M-2009</div> <div>PARENTHESES FOR REF ONLY</div> <div>DIMENSIONS ARE IN INCHES</div> <div>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div> <div>TOLERANCES:</div> <div> ANGLES ± 2°</div> <div> 3 PL ± .005 [13]</div> <div> 2 PL ± .015 [38]</div> <div>REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</div> <div>CONCENTRICITY MACHINED DIA. .002 FIM</div> <div>MACHINE TOOL MISMATCH .003 MAX</div>		OWN	DATE	<div><div> WERLATONE SINCE 1965</div><div>17 Jon Barrett Rd Patterson, NY 12563</div></div>	
		SD	2/11/2019		
		CHK	DATE		
		CS	2/11/2019		
<div>NEXT ASSY</div> <div>USED ON</div> <div>APPLICATION</div>	ENGR	DATE	<div><div>OUTLINE</div><div>SIZE CAGE CODE (DWG NO)</div><div>B 10018-500</div></div>		REV E
	MFRGR	DATE			
	QA	DATE			
	RLSE	DATE			
<div>THIRD ANGLE PROJECTION</div> <div></div>		SCALE	1:1	SHEET 1 OF 1	

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