


PRODUCT DATA SHEET
C3900

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: 10 - 55 MHz
Power: 10,000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.05 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 30 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 2.24"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C3900-20	7/16 Female	7/16 Female	N Female	N Female
C3900-30	LC Female	LC Female	N Female	N Female
C3900-33	LC Female	LC Female	BNC	BNC
C3900-503	SQS Female	SQS Female	BNC	BNC
C3900-753	HN Male	HN Female	BNC	BNC
C3900-QC-0	QC Block	QC Block	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.

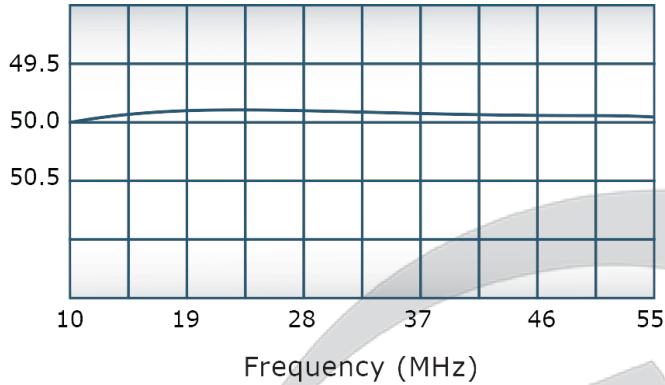


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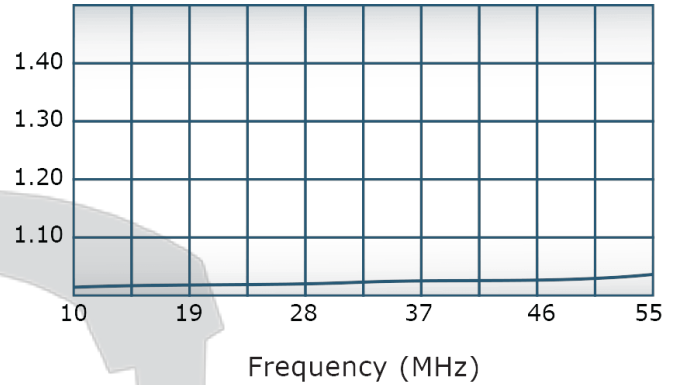
C3900

Performance Data (Specifications subject to change without notice):

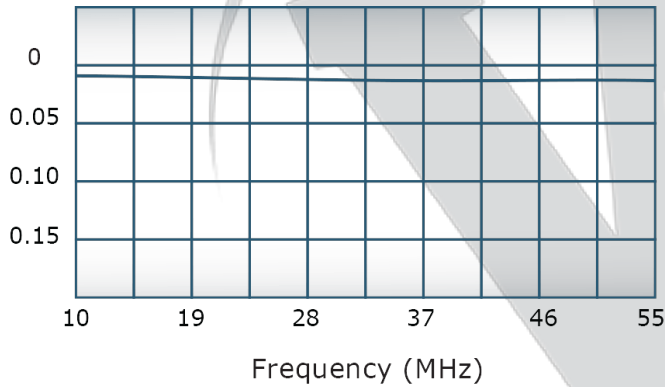
Coupling:



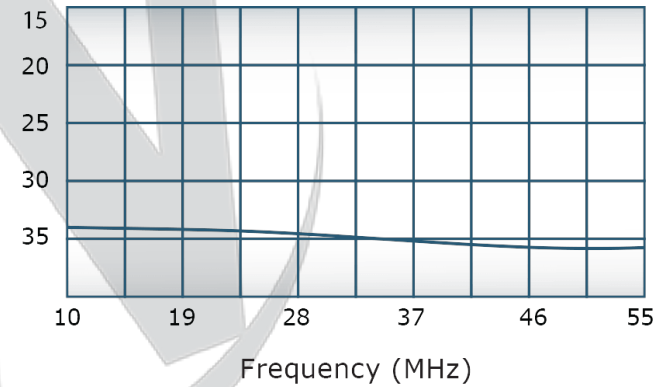
VSWR:



Insertion Loss:



Directivity:

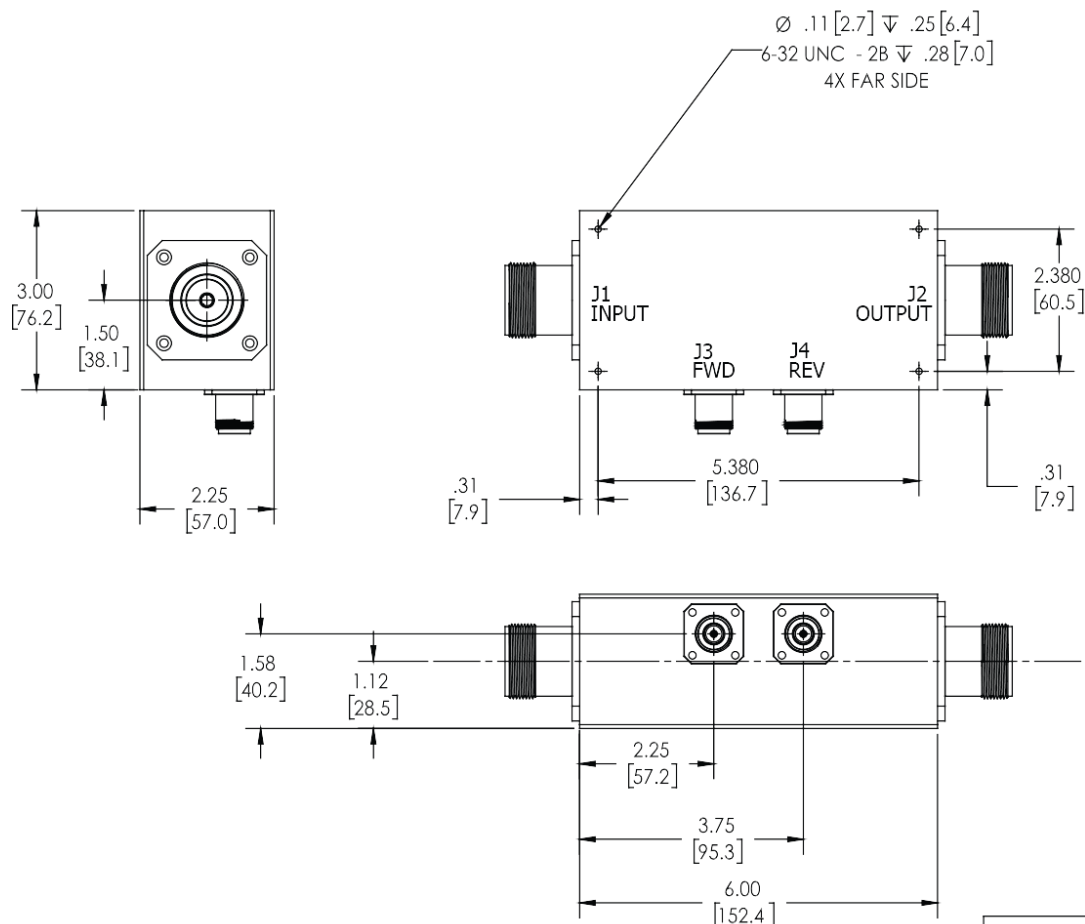




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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	10/29/2018	CS



										UNLESS OTHERWISE SPECIFIED										SWN		DATE				17 Jon Barrett Rd Patterson, NY 12568							
										<ul style="list-style-type: none">• INTERPRET DRAWING JAW PHS-STD-100• DIMENSIONING PER ASME Y14.5M-2009• PRELIMINARY DWG FOR REF ONLY• DIMENSIONS ARE IN INCHES (mm)• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES• TOLERANCES:<ul style="list-style-type: none">ANGLES ± 2°R & P ± .002 (.13)P & C ± .015 (.4)• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX• CONCENTRICITY MACHINED DIA. .002 F/M• MACHINE TOOL REGISTRATION .002 MAX										PLD		10/25/2018						CHK		DATE		CS	
																				ENVR		DATE											
																				INFR		DATE											
																				QA		DATE		SIZE		CAGE CODE		DWG NO		R			
NEXT ASSY					USED ON																	B		28812		10396-500							
APPLICATION										THIRD ANGLE PROJECTION 										RLSE		DATE		SCALE		1:2				SHEET 1 OF 1			

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