

## PRODUCT DATA SHEET

C9446

**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 - 1000 MHz
Power:	250 W CW
Coupling:	40 ± 1.0 dB Max.
Insertion Loss:	0.5 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.30:1 Max.
Directivity:	20 dB Min.

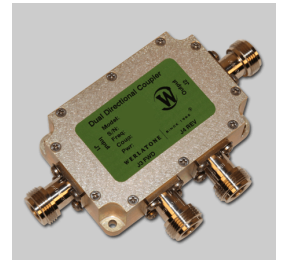
### Mechanical Specifications:

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:	3.0 x 2.0 x 1.0"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9446-10	N Female	N Female	N Female	N Female
C9446-12	N Female	N Female	SMA	SMA
C9446-13	N Female	N Female	BNC	BNC
C9446-301	TNC	TNC	N Female	N Female
C9446-714	N Male	N Male	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.

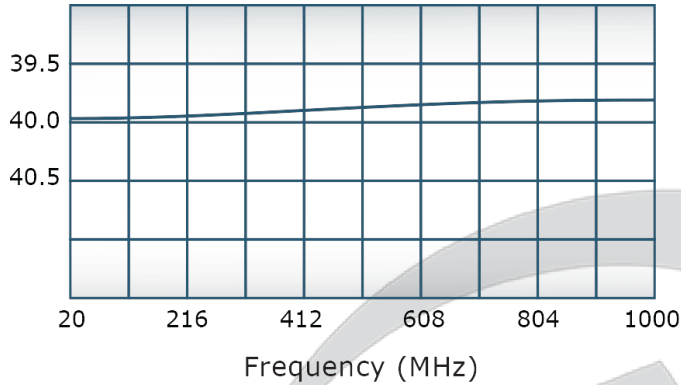


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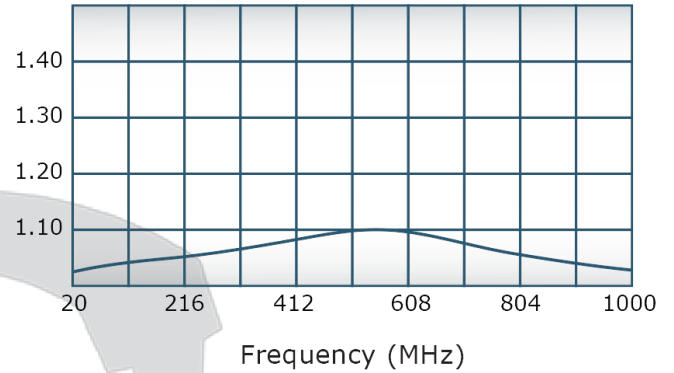
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### Performance Data (Specifications subject to change without notice):

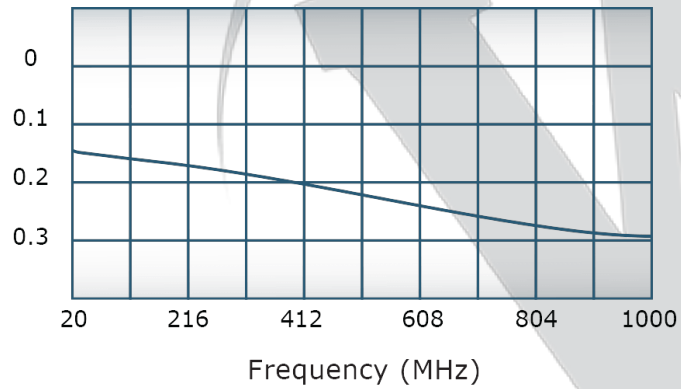
Coupling:



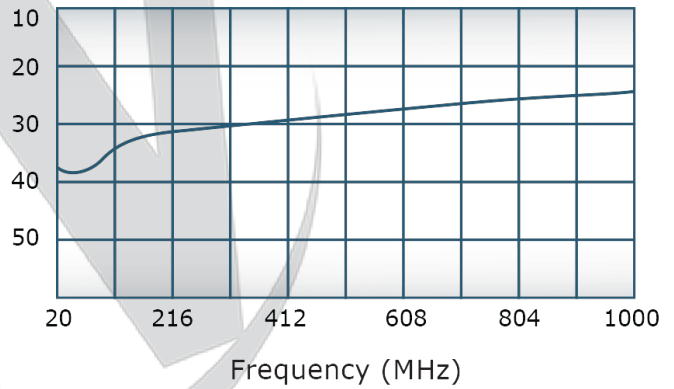
VSWR:



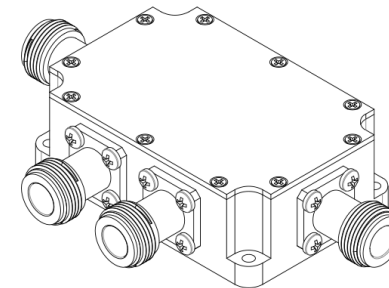
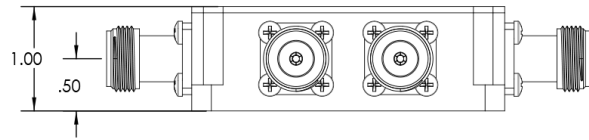
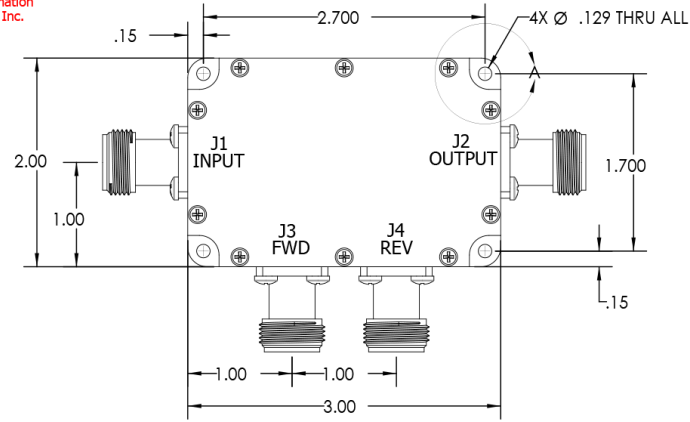
Insertion Loss:



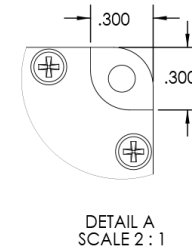
Directivity:



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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	8/13/2012	



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS ARE IN INCHES DIMENSIONAL UNITS APPLY BEFORE PROCESSES TOLERANCES: ANGLES ± 3° 3 PL ± .015 2 PL ± .015 REMOVE ALL BURRS AND SHARP EDGES R.01 MAX. CONCENTRICITY F3.00 (Ø) - .002 FPM MACHINE TOOL MISMATCH .003 MAX.		CHK	DATE	
				ENGR	DATE	TITLE
				MFR	DATE	OUTLINE
				QA	DATE	SIZE CAGE CODE (DWG NO)
				REL	DATE	B 28812 20935-500
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SCALE	1:1	REV -
APPLICATION						SHEET 1 OF 1

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