



PRODUCT DATA SHEET

C7962

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 450 - 2500 MHz
Power: 100 W CW
Coupling: 30 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 17 dB Min.

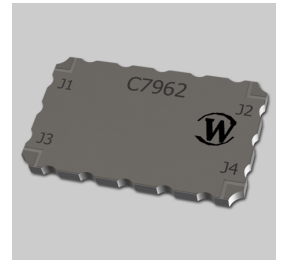
Mechanical Specifications:

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: 1.15 x 0.7 x 0.07"

Connector Configurations:

Model	J1	J2	J3	J4
C7962	Input	Output	Forward	Reverse

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.

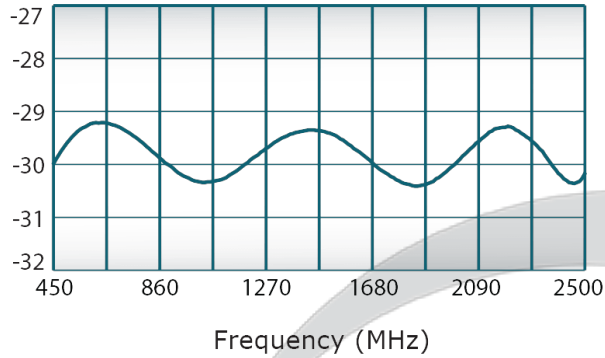


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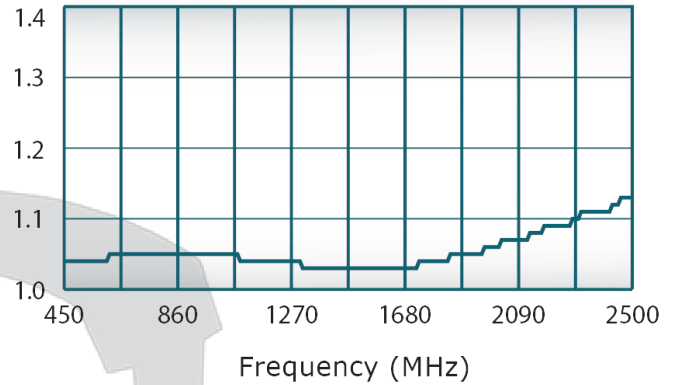
C7962

Performance Data (Specifications subject to change without notice):

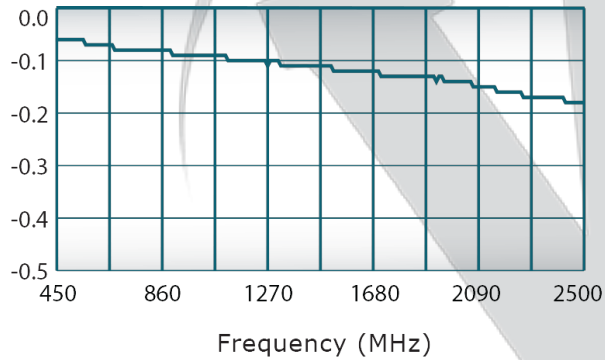
Coupling:



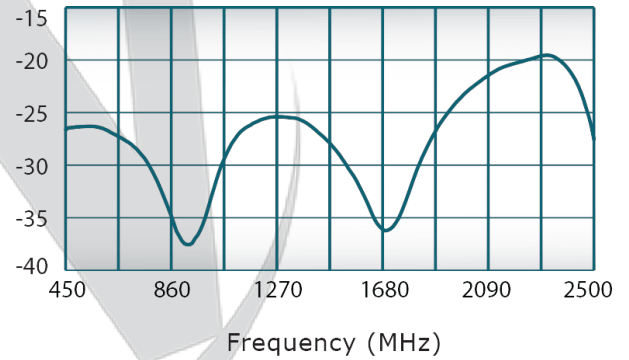
VSWR:



Insertion Loss:



Directivity:



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Technical drawing of a rectangular plate. The main drawing shows a rectangle with a width of 1.15 and a height of 1.07. The corners are rounded with a radius of 0.02. A detail view of the corner is shown to the right, indicating a fillet radius of 0.02.

1. PORTS (4X) ARE Ø16 PLATED CASTELLATION (4X)
2. Ø05 PRINTED FIDUCIAL FOR ORIENTATION
3. HATCHED AREAS DENOTE METALLIZATION
4. SMT COMPONENT. REFER TO TECH NOTE FOR MOUNTING RECOMMENDATIONS.
5. SURFACE FINISH OPTIONS:
 - C7962-Pb: Electrodeposited Tin/Lead
 - C7962-Sn: Immersion Tin
 - C7962-Ag: Immersion Silver
 - C7962-Au: ENIG

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J1 : INPUT
J2 : OUTPUT
J3 : FWD
J4 : REV
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REFUGEE HISTORY					
DATE	BY	REASON FOR REFUGEE	NAME	DOB	AGE
5/1/2005	A	UNEMPLOYED	MI	PA	60
5/5/2006	B	EMPLOYED	MI	PA	61

[illegible]

C7962 Rev.-