
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.

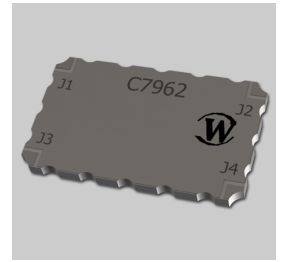
Mechanical Specifications:

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.

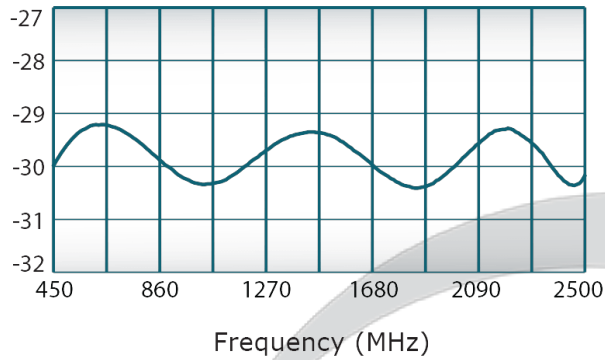


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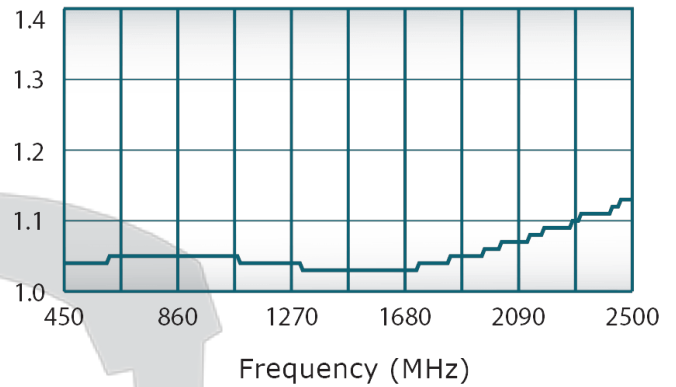
C7962

Performance Data (Specifications subject to change without notice):

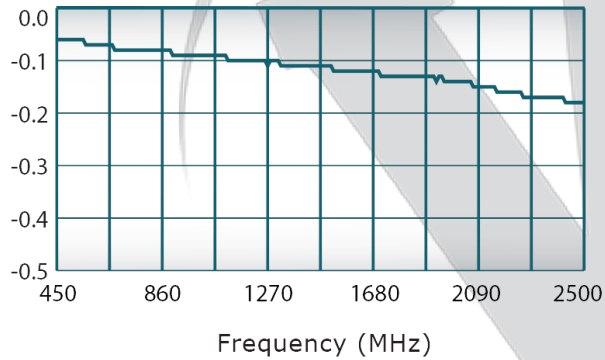
Coupling:



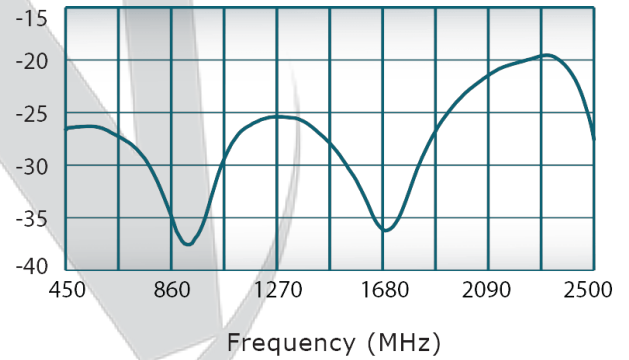
VSWR:



Insertion Loss:



Directivity:



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Technical drawing of a rectangular plate with dimensions 1.15, 1.07, and .62. The drawing shows a rectangular plate with a wavy, irregular edge. The dimensions are indicated by arrows and numbers: 1.15 for the total width, 1.07 for the width of the central rectangular section, and .62 for the height of the central section. The corners of the plate are rounded and feature a diagonal hatching pattern.

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

J1 : INPUT
J2 : OUTPUT
J3 : FWD
J4 : REV

2015-2016 HSTORY						
DATE	TIME	LOCATION	REASON	DATE	TIME	LOCATION
1/1/16	1	101	101	1/1/16	1	101
1/1/16	1	101	101	1/1/16	1	101

[illegible]

C7962 Rev.-