
**PRODUCT DATA SHEET**
**C11742**

**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 - 2500 MHz  
Power: 200 W CW (20-500 MHz), 150 W CW (500-1000 MHz), 50 W CW (1000-2600 MHz)  
Coupling: 40 ± 1.0 dB Max.  
Insertion Loss: 0.5 dB Max.  
Flatness: ± 1.0 dB Max.  
VSWR (ML): 1.30:1 Max.  
Directivity: 18 dB Min.

**Mechanical Specifications:**

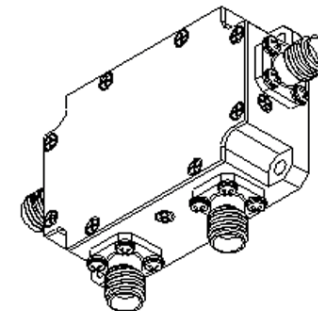
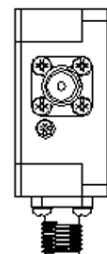
Type: Connectorized  
Material: Aluminum 6061-T6  
Surface Finish: Chem. Film Per MIL-DTL-5541F  
Type II Class 3 (Clear Iridite)  
RoHS Compliant Available  
Operating Temperature: -55°C to +75°C  
Storage Temperature: -60°C to +85°C  
Humidity: 95% Non-Condensing  
Size: 1.76 x 1.16 x 0.565"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C11742-102	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.

A technical drawing of a rectangular metal plate. The plate has a central rectangular area and four corner fasteners. Each corner fastener consists of a cylindrical base with a threaded section and a hexagonal nut. The drawing is a top-down view, showing the plate's dimensions and the placement of the fasteners.

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