

PRODUCT DATA SHEET C7248

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:

 $\begin{array}{lll} \mbox{Frequency:} & 300 - 3000 \mbox{ MHz} \\ \mbox{Power:} & 100 \mbox{ W CW} \\ \mbox{Coupling:} & 6 \pm 1.0 \mbox{ dB Max.} \\ \mbox{Insertion Loss:} & 0.35 \mbox{ dB Max.} \\ \mbox{Flatness:} & \pm 1.0 \mbox{ dB Max.} \\ \mbox{VSWR (ML):} & 1.25:1 \mbox{ Max.} \\ \mbox{Directivity:} & 15 \mbox{ dB Min.} \end{array}$

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 2.0 x 0.85"

Weight:

Port Configurations:

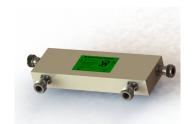
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7248-10	N Female	N Female	N Female	N Female
C7248-12	N Female	N Female	SMA	SMA
C7248-102	SMA	SMA	SMA	SMA

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.

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

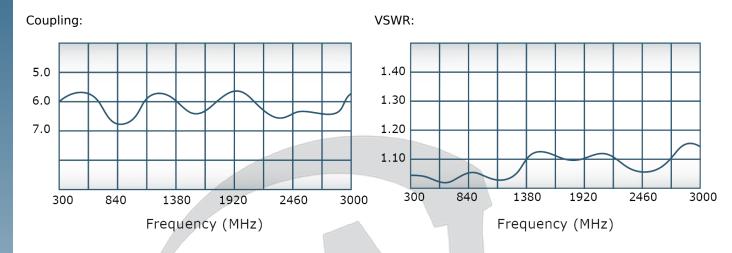
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



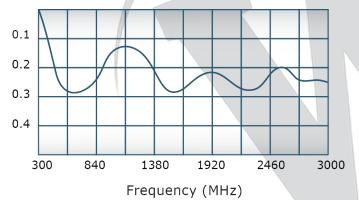


PRODUCT DATA SHEET C7248

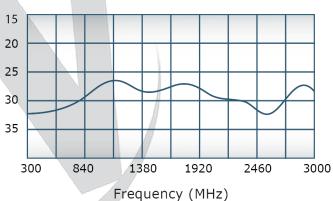
Performance Data (Specifications subject to change without notice):



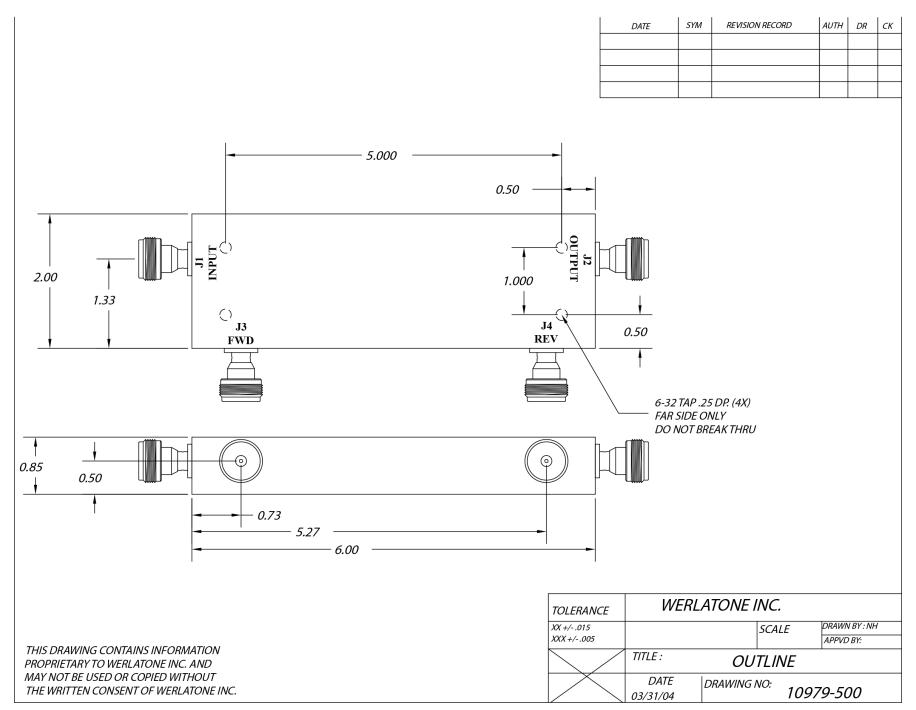




Directivity:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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