



PRODUCT DATA SHEET C8719

**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:**

 $\begin{array}{lll} \mbox{Frequency:} & 80 - 1000 \mbox{ MHz} \\ \mbox{Power:} & 2500 \mbox{ W CW} \\ \mbox{Coupling:} & 60 \pm 1.0 \mbox{ dB Max.} \\ \mbox{Insertion Loss:} & 0.1 \mbox{ dB Max.} \\ \mbox{Flatness:} & \pm 0.5 \mbox{ dB Max.} \\ \mbox{VSWR (ML):} & 1.30:1 \mbox{ Max.} \\ \mbox{Directivity:} & 20 \mbox{ dB Min.} \end{array}$ 

### **Mechanical Specifications:**

Type: Connectorized 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 3.0 x 1.59"

#### **Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8719-20	7/16 Female	7/16 Female	N Female	N Female
C8719-22	7/16 Female	7/16 Female	SMA	SMA
C8719-23	7/16 Female	7/16 Female	BNC	BNC
C8719-41	SC Female	SC Female	N Female	N Female
C8719-43	SC Female	SC Female	SMA	SMA
C8719-727	7/16 Male	7/16 Female	N Female	N Female
C8719-728	7/16 Male	7/16 Female	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

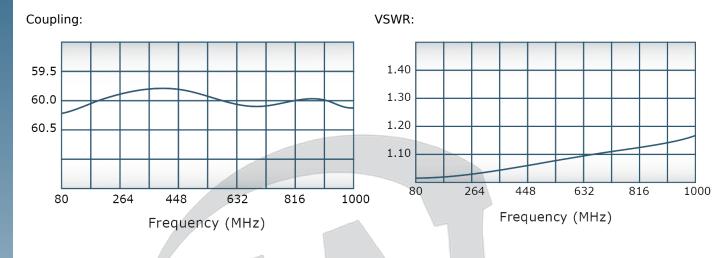


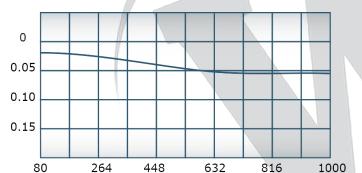
Insertion Loss:



PRODUCT DATA SHEET C8719

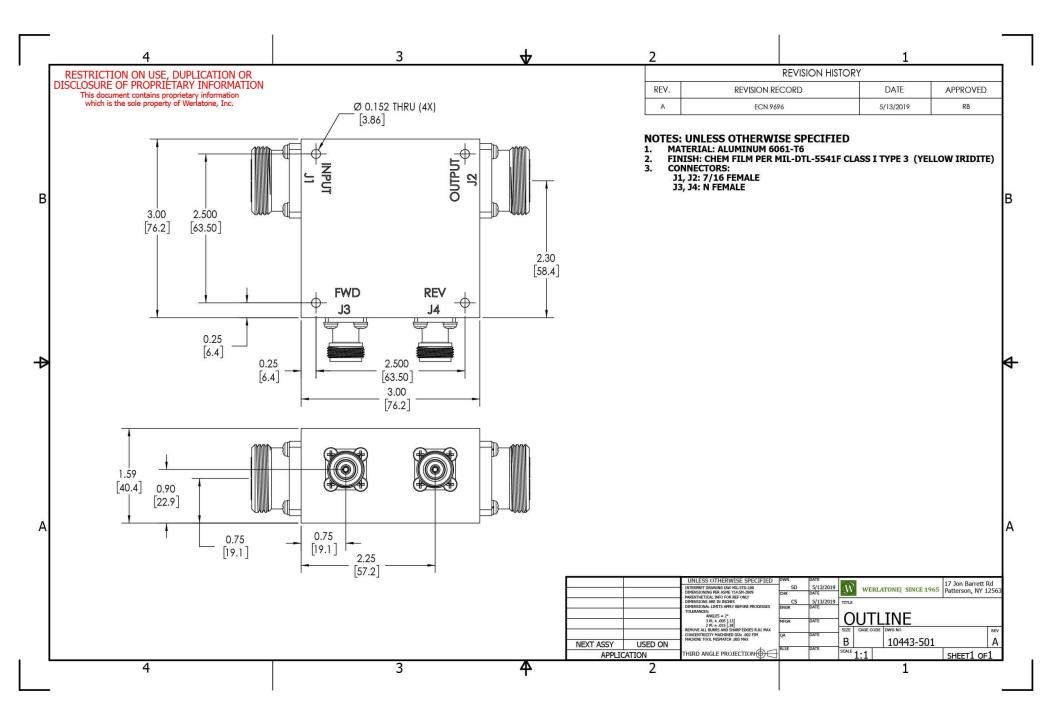
# Performance Data (Specifications subject to change without notice):





10 20 30 40 80 264 448 632 816 1000 Frequency (MHz)

Directivity:



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