



PRODUCT DATA SHEET C6559

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:

 $\begin{array}{lll} \mbox{Frequency:} & 500 - 3000 \mbox{ MHz} \\ \mbox{Power:} & 1000 \mbox{ W CW} \\ \mbox{Coupling:} & 40 \pm 1.0 \mbox{ dB Max.} \\ \mbox{Insertion Loss:} & 0.25 \mbox{ dB Max.} \\ \mbox{Flatness:} & \pm 0.75 \mbox{ dB Max.} \\ \mbox{VSWR (ML):} & 1.30:1 \mbox{ Max.} \\ \mbox{Directivity:} & 15 \mbox{ dB Min.} \end{array}$

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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6559-10	N Female	N Female	N Female	N Female
C6559-12	N Female	N Female	SMA	SMA
C6559-13	N Female	N Female	BNC	BNC
C6559-20*	7/16 Female	7/16 Female	N Female	N Female
C6559-22*	7/16 Female	7/16 Female	SMA	SMA
C6559-23*	7/16 Female	7/16 Female	BNC	BNC
C6559-43	SC Female	SC Female	SMA	SMA
C8722-302	TNC Female	TNC Female	SMA	SMA
C6559-712	N Male	N Female	SMA	SMA
C6559-714	N Male	N Female	N Female	N Female
C6559-728	7/16 Male	7/16 Female	SMA	SMA
(7/16 Mainline connector option increases size to 3.0 x 3.0 x 1.59")				

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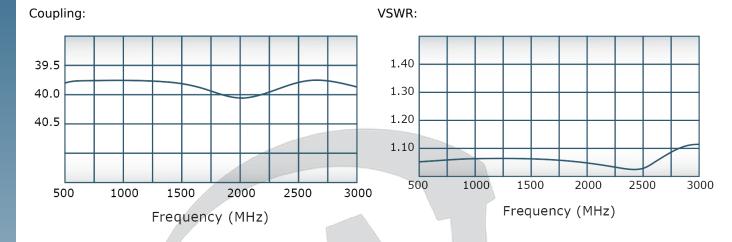
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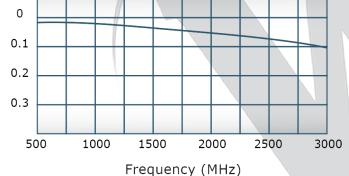


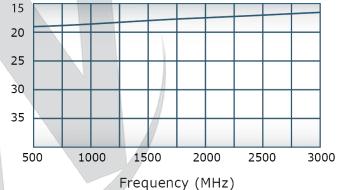
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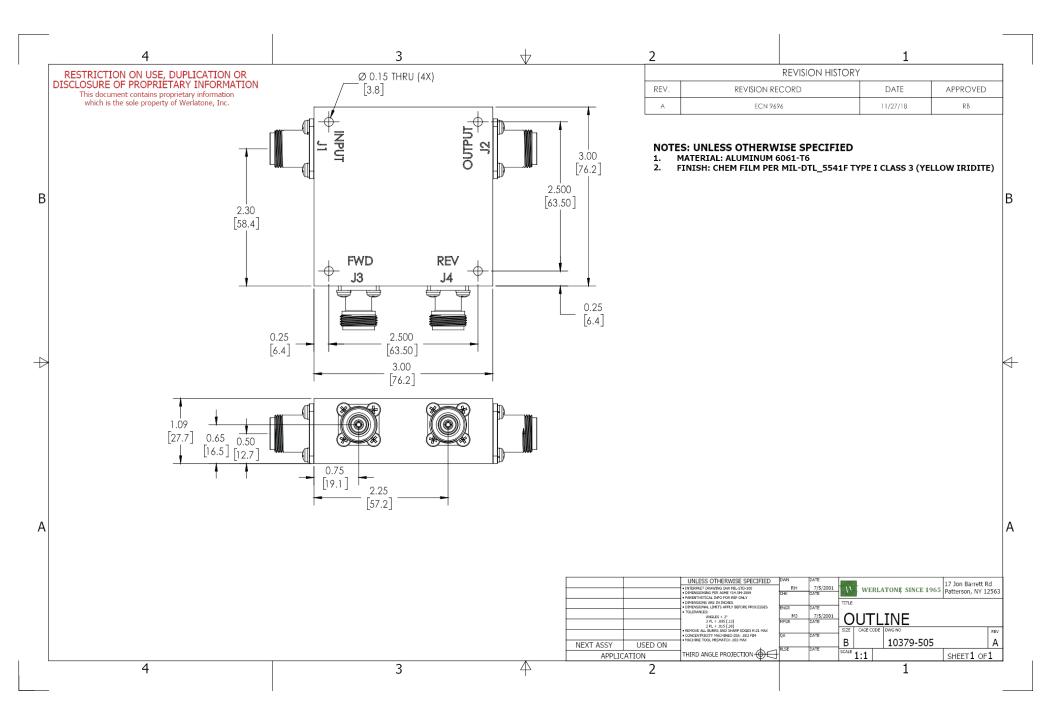
Performance Data (Specifications subject to change without notice):











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