

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:

Frequency: 500 - 3000 MHz
Power: 1000 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.25 dB Max.
Flatness: ± 0.75 dB Max.
VSWR (ML): 1.30:1 Max.
Directivity: 15 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: 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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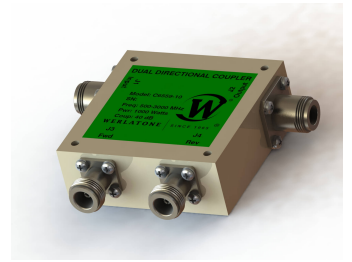
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C6559

Connectorized Directional Couplers

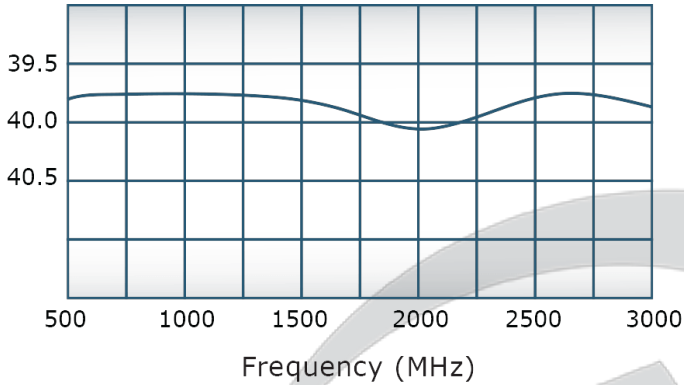


PRODUCT DATA SHEET

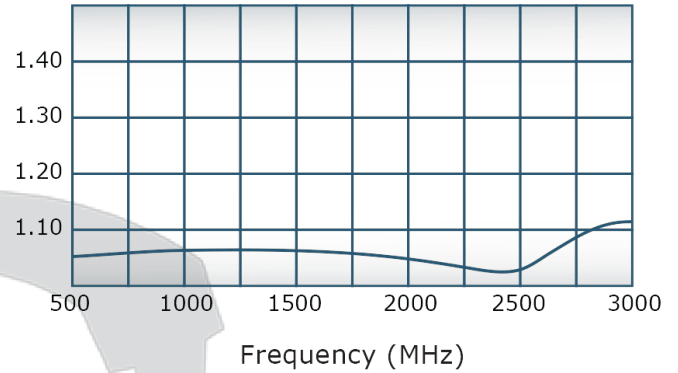
C6559

Performance Data (Specifications subject to change without notice):

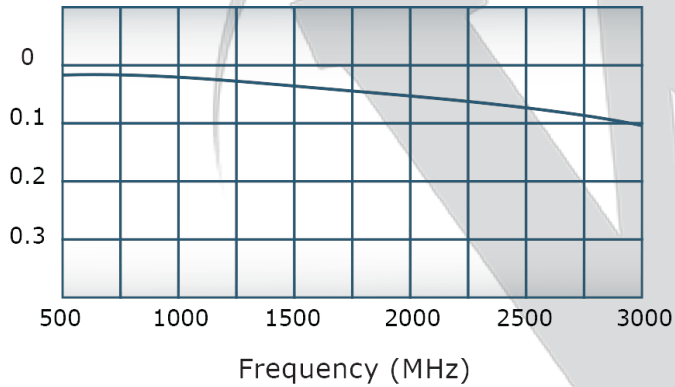
Coupling:



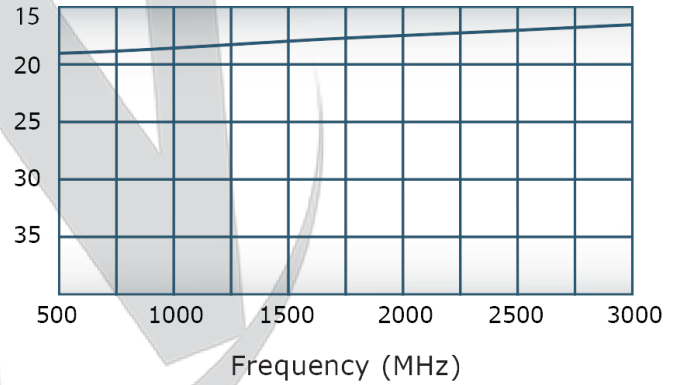
VSWR:



Insertion Loss:



Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	<div><div></div><div>WERLATONE SINCE 1965</div></div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>			
		<div><div><div><div>• INTERPRET DRAWING JAW MIL-STD-100</div><div>• DIMENSIONING PER ASME Y14.5M-2009</div><div>• PARENTHETICAL INFO FOR REF ONLY</div><div>• DIMENSIONS ARE IN INCHES</div><div>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div><div>• TOLERANCES: ANGLES ± 2° 3 PL. ± .005 [1.3] 2 PL. ± .015 [3.8]</div><div>• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</div><div>• CONCENTRICITY MACHINED DIA: .002 FIM</div><div>• MACHINE TOOL MISMATCH: .003 MAX</div></div></div></div>		CHK	DATE				
				ENGR	DATE	TITLE <div>OUTLINE</div>			
				MFR	DATE				
				QA	DATE	SIZE B	CAGE CODE 10379-505	DWG NO	REV A
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 		RLSE	DATE	SCALE 1:1	SHEET 1 OF 1		
APPLICATION									

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