



PRODUCT DATA SHEET

C8705

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: 100 - 500 MHz
Power: 2000 W CW
Coupling: 60 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.15:1 Max.
Directivity: 20 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)
C8705-20*	7/16 Female	7/16 Female	N Female	N Female
C8705-22*	7/16 Female	7/16 Female	SMA	SMA
C8705-23*	7/16 Female	7/16 Female	BNC	BNC
C8705-41	SC Female	SC Female	N Female	N Female
C8705-43	SC Female	SC Female	SMA	SMA
C8705-613	N Female	N Male	BNC	BNC
C8705-745	SC Male	SC Female	SMA	SMA

*Starred options are 3.0 x 3.0 x 1.59"

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.



WERLATONE

Model C8705

Connectorized Directional Couplers

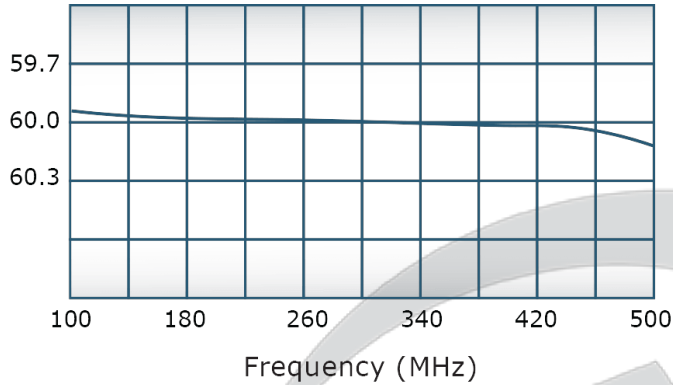


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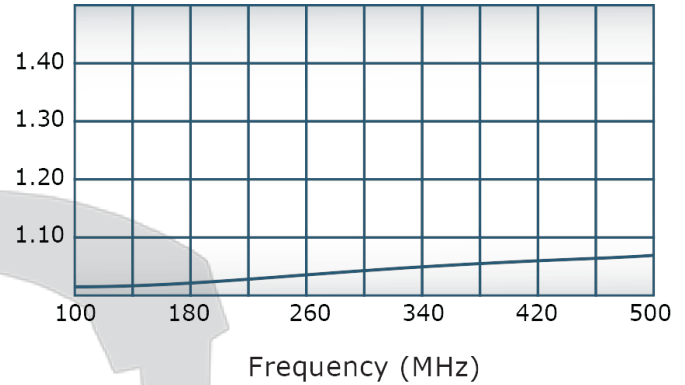
C8705

Performance Data (Specifications subject to change without notice):

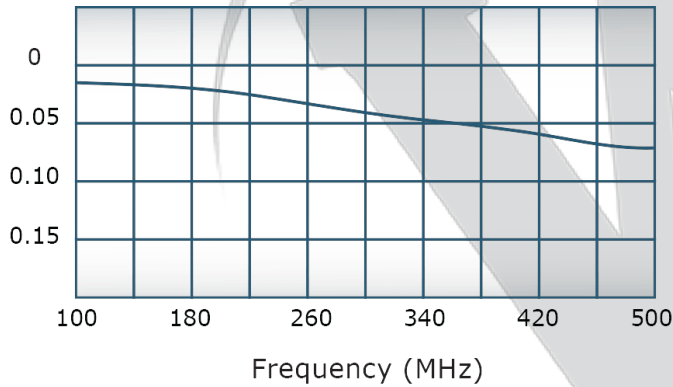
Coupling:



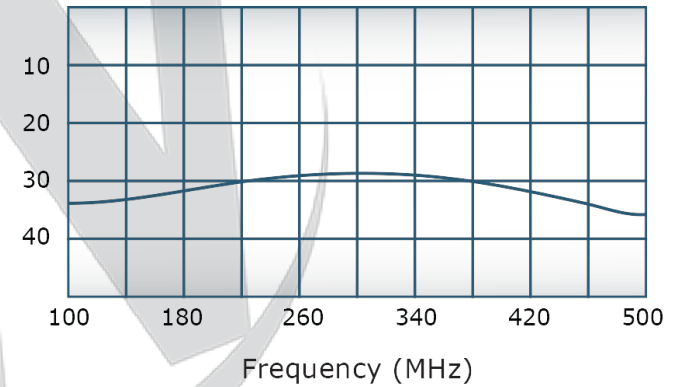
VSWR:



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	17 Jon Barrett Rd Patterson, NY 12563	
		• INTERPRET DRAWING JAW MIL-STD-100		RH	7/5/2001	WERLATONE SINCE 1965	
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE		
		• PARENTHETICAL INFO FOR REF ONLY		ENGR	DATE	TITLE OUTLINE	
		• DIMENSIONS ARE IN INCHES		MJ	7/5/2001		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MPGR	DATE	SIZE B	
		• TOLERANCES:		QA	DATE		
		ANGLES: ± 2°		RLSE	DATE	CAGE CODE 10379-505	
		2 PL. ± .015 [1.3]					
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				DWG NO 10379-505	
		• CONCENTRICITY MACHINED DIA: .002 FIM					
		• MACHINE TOOL MISMATCH: .003 MAX				REV A	
NEXT ASSY		USED ON					
APPLICATION		THIRD ANGLE PROJECTION				SCALE 1:1	
						SHEET 1 OF 1	

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