

## PRODUCT DATA SHEET

C5846

**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: 470 - 860 MHz  
Power: 800 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.3$  dB Max.  
Insertion Loss: 0.1 dB Max.  
VSWR (ML): 1.20:1 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)
C5846-10	N Female	N Female	N Female	N Female
C5846-12	N Female	N Female	SMA	SMA
C5846-13	N Female	N Female	BNC	BNC
C5846-20*	7/16 Female	7/16 Female	N Female	N Female
C5846-22*	7/16 Female	7/16 Female	SMA	SMA
C5846-23*	7/16 Female	7/16 Female	BNC	BNC
C5846-302	TNC Female	TNC Female	SMA	SMA
C5846-727*	7/16 Male	7/16 Female	N Female	N Female

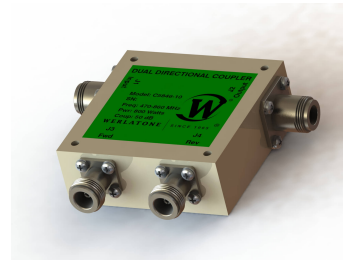
\*Starred options are 3.0 x 3.0 x 1.59"



# WERLATONE

Model C5846

Connectorized Directional Couplers

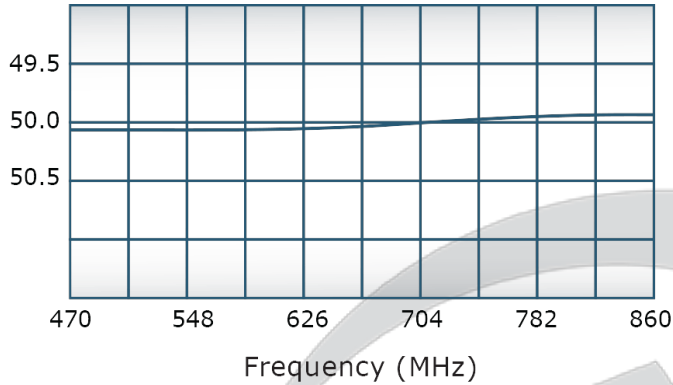


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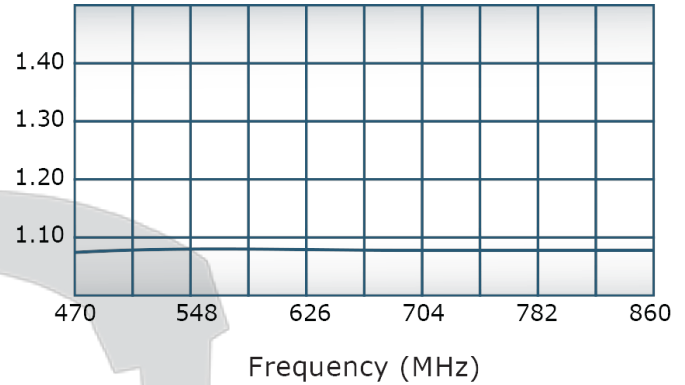
C5846

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

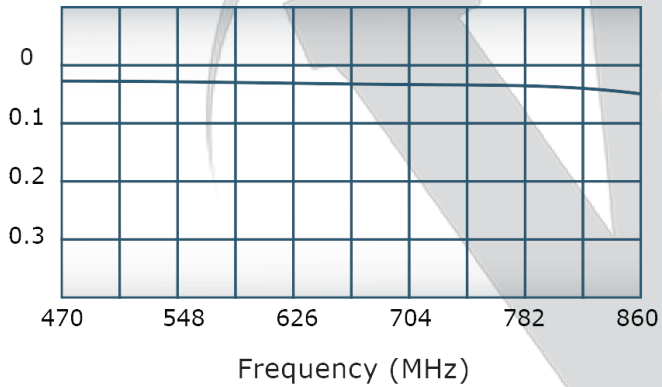
Coupling:



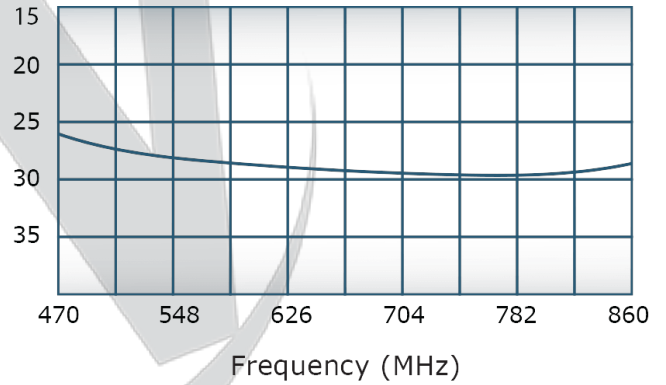
VSWR:



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			
• INTERPRET DRAWING 5449 MIL-STD-100	OWN	DATE	7/5/2001
• DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE	
• PARENTHESES FOR REF ONLY	ENGR	DATE	
• DIMENSIONS ARE IN INCHES	MJ	7/5/2001	
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	DATE		
• TOLERANCES:	QA	DATE	
ANGLES ± 2°	DATE		
2 PL. ± .005 [1.3]	DATE		
2 PL. ± .015 [3.8]	DATE		
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE		
• CONCENTRICITY MACHINED DIA: .002 FIM	DATE		
• MACHINE TOOL MISMATCH: .003 MAX	DATE		
THIRD ANGLE PROJECTION	DATE		

		17 Jon Barrett Rd Patterson, NY 12563	
TITLE			
OUTLINE			
SIZE	CAGE CODE	DWG NO	REV
B		10379-505	A
SCALE	1:1		SHEET 1 OF 1

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