WERLATONE

Model C5845
Connectorized Directional Couplers

PRODUCT DATA SHEET **C5845**

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:	1 - 10 MHz
Power:	20,000 W CW
Coupling:	70 ± 1.0 dB Max.
Insertion Loss:	0.05 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.10:1 Max.
Directivity:	25 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:	6.0 x 3.0 x 2.24''

Connector Configurations:

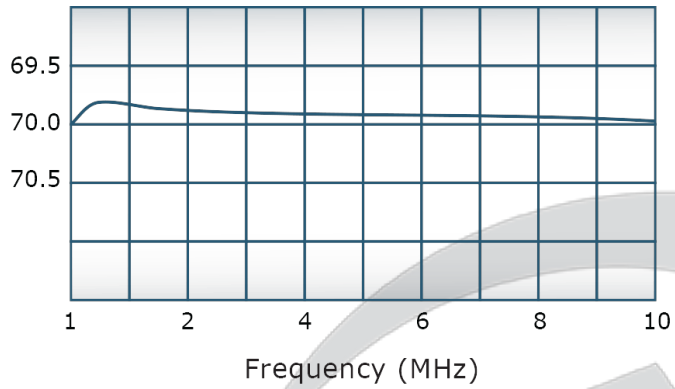
Model	**Input (J1)**	**Output (J2)**	**Fwd (J3)**	**Rev (J4)**
C5845-30	LC Female	LC Female	N Female	N Female
C5845-32	LC Female	LC Female	SMA	SMA
C5845-33	LC Female	LC Female	BNC	BNC
C5845-501	SQS Female	SQS Female	N Female	N Female

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.

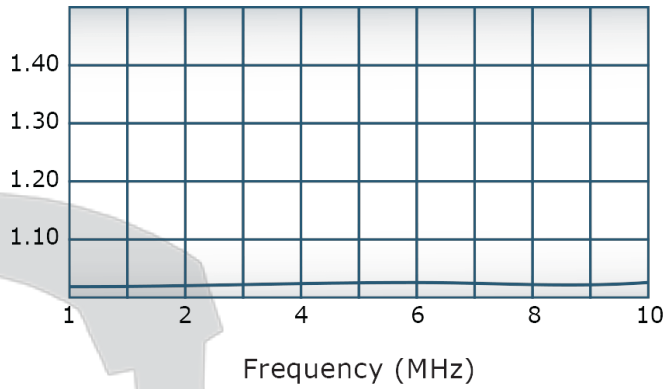
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Performance Data (Specifications subject to change without notice):

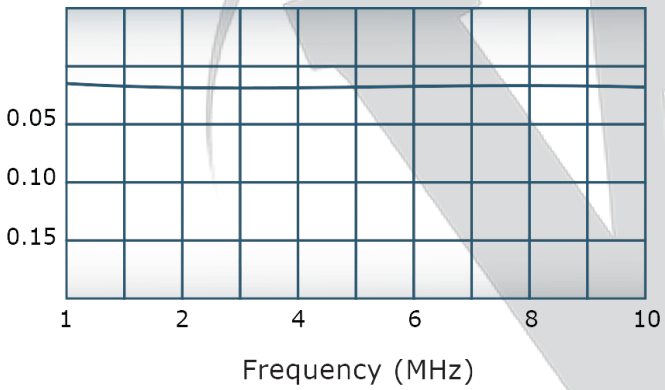
Coupling:



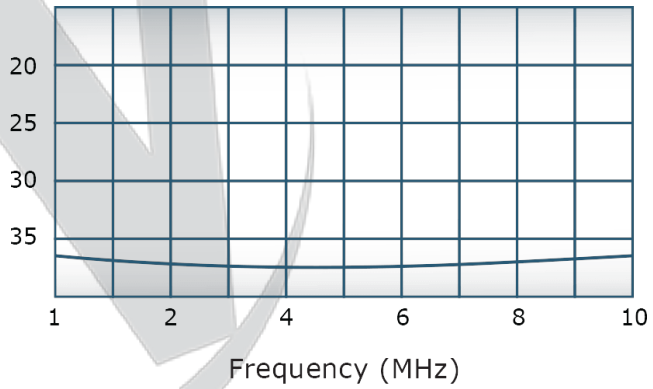
VSWR:



Insertion Loss:



Directivity:



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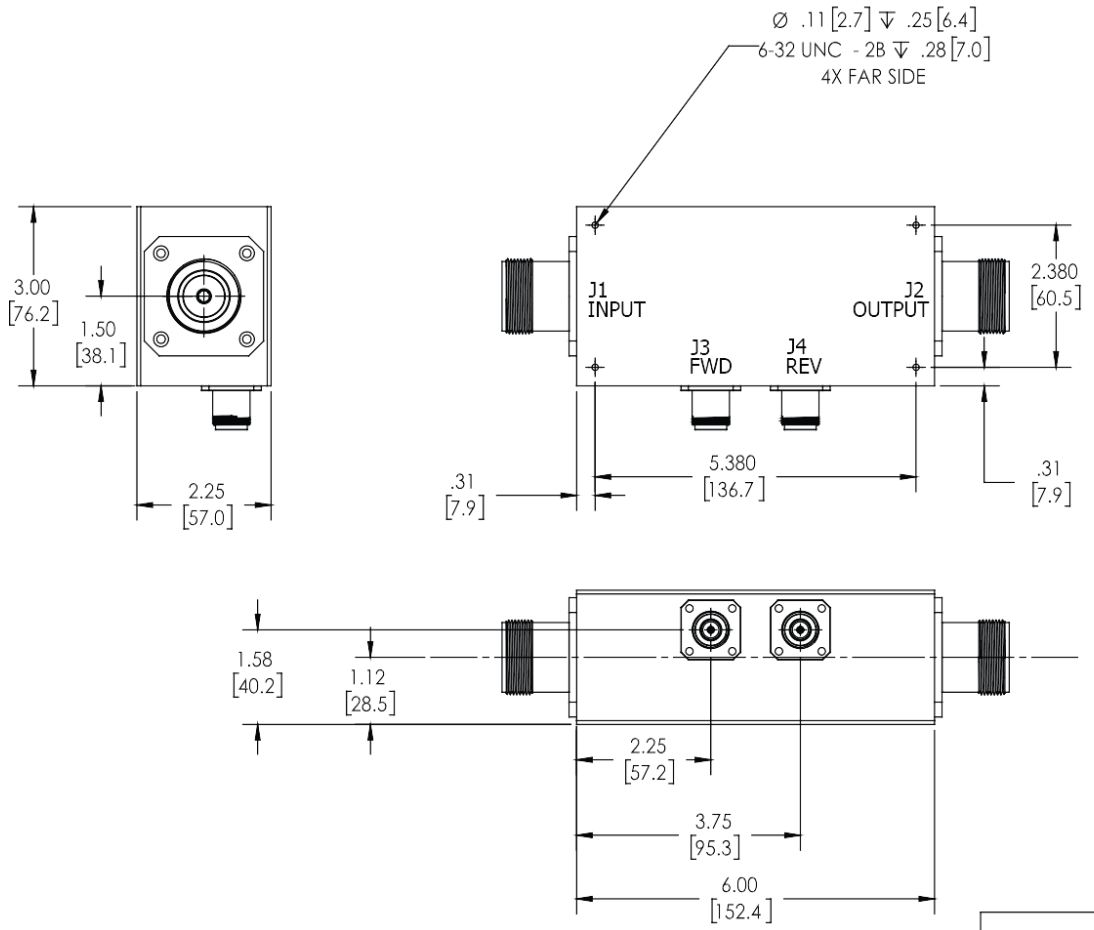
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	10/29/2018	CS



		UNLESS OTHERWISE SPECIFIED	DWN	PLP	10/25/2018	WERLATONE SINCE 1965 — 17 Jon Barrett Rd, Patterson, NY 12563
		• INTERPRET DRAWING IAW MIL-STD-100	CHK	CS	10/29/2018	TITLE
		• DIMENSIONING PER ASME Y14.5M-2009	ENGR			
		• PARENTHETICAL INFO FOR REF ONLY	MFGR			SIZE: B — CAGE CODE: 28812 — DWG NO: 10396-500 — REV: -
		• DIMENSIONS ARE IN INCHES [mm]	QA			
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	RLSE			SCALE: 1:2 — SHEET 1 OF 1
		• TOLERANCES: ANGLES ± 2° / 3 PL ± .005 [.13] / 2 PL ± .015 [.4]				
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
		• CONCENTRICITY MACHINED DIA: .002 FIM				
		• MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON					
APPLICATION		THIRD ANGLE PROJECTION				

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