WERLATONE

Model D5025
Combiners In-Phase Connectorized



PRODUCT DATA SHEET **D5025**

Werlatone® ***Mismatch Tolerant®*** High Power Broadband RF Combiners and Dividers will operate into High Load VSWR Conditions, for extended periods, without damage. With extensive experience as a supplier to military platforms worldwide **Werlatone®** designs its High Power Broadband Combiners, Power Dividers, and N-Way Combiners for proper operation in the most stringent operating conditions.

Features:

High Power | Wide Bandwidths | Small Size | High Isolation | Custom Designs Available

Electrical Specifications:

Frequency:	0.5 - 1.7 MHz
Power:	100 W CW
Insertion Loss:	0.15 dB Max.
VSWR:	1.20:1 Max.
Phase Balance:	± 4° Max.
Amplitude Balance:	0.2 dB Max.
Isolation:	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
Size:	3.0 x 3.0 x 2.25''

Connector Configurations:

Model	**Sum Port (J1)**	**Input/Output (J2)**	**Input/Output (J3)**
D5025-10	N Female	N Female	N Female
D5025-12	N Female	SMA	SMA
D5025-102	SMA	SMA	SMA

When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration from a list of options. Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-Way Combiners are available upon request.

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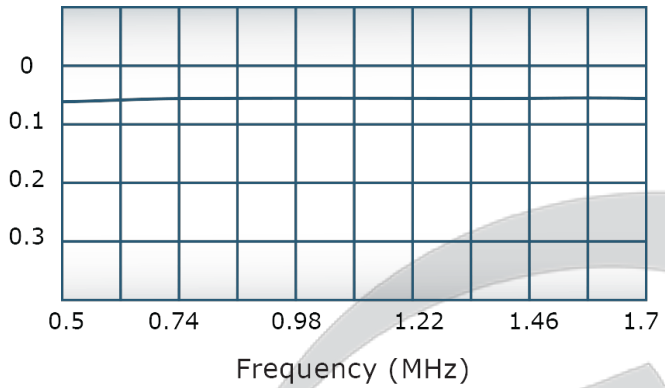
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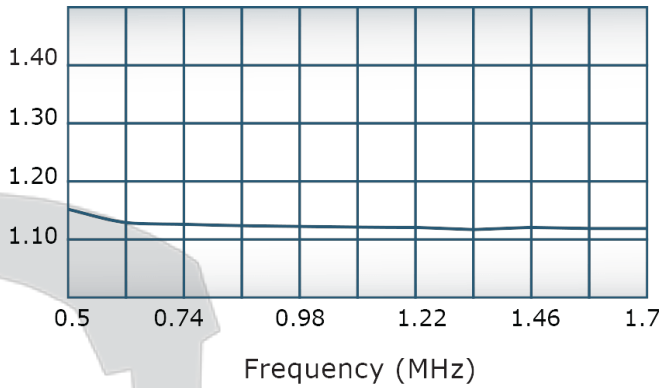
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Performance Data (Specifications subject to change without notice):

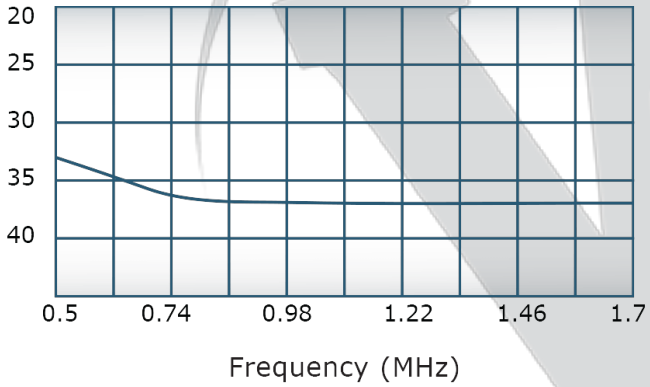
Insertion Loss:



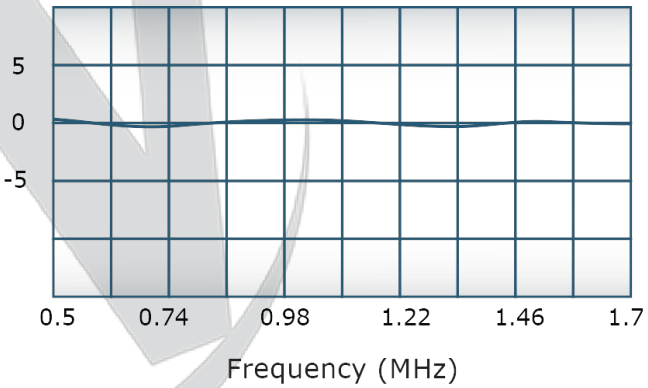
VSWR:



Isolation:



Phase Balance:



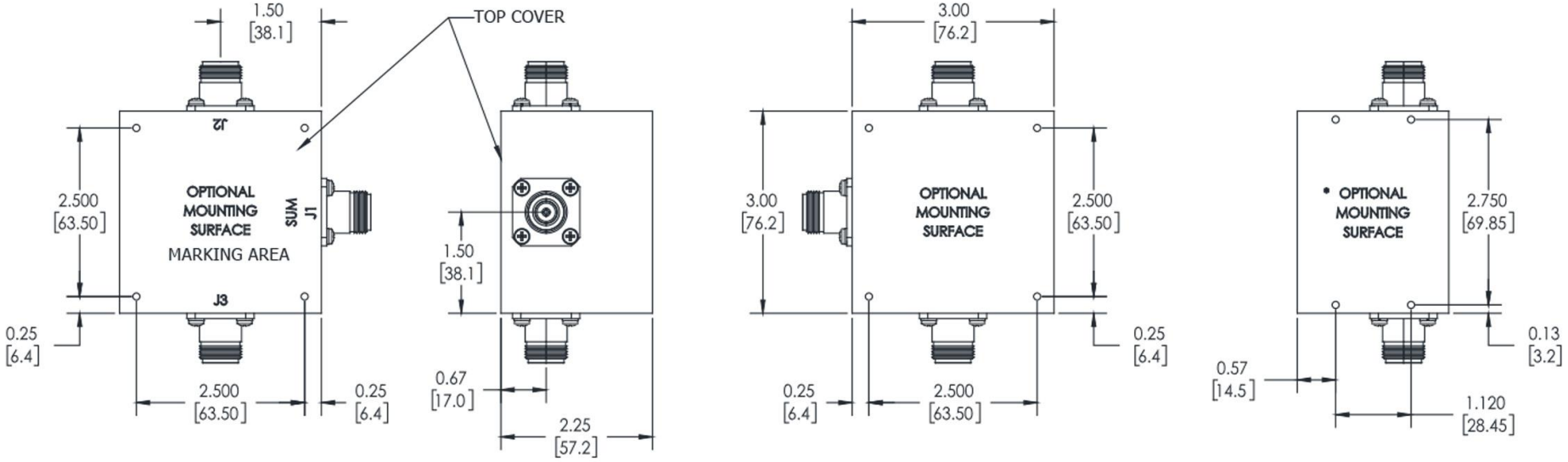
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1545	9/23/98	CS
B	ECN 4261	6/18/07	JE
C	ECN 9696	7/16/2019	RB



NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)
3. CONNECTORS:
   J1-J3: N FEMALE
4. * USE THIS SURFACE FOR NON-COHERENT COMBINING
5. ALL MOUNTING HOLES ARE THREADED 6-32 X .25 DEEP (12X)

		UNLESS OTHERWISE SPECIFIED	DWN	SD	7/16/2019	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
		• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL ± .005 [.13] 2 PL ± .015 [.38] • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL MISMATCH .003 MAX	CHK	CS	7/16/2019	TITLE	
			ENGR			OUTLINE	
			MFGR			SIZE B / CAGE CODE / DWG NO 10034-500 / REV C	
			QA				
NEXT ASSY	USED ON		RLSE			SCALE 1:1.5	SHEET 1 OF 1
APPLICATION		THIRD ANGLE PROJECTION					

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