



PRODUCT DATA SHEET

D5253

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: 1 - 30 MHz
 Power: 200 W CW
 Insertion Loss: 0.3 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: ± 5° Max.
 Amplitude Balance: 0.2 dB Max.
 Isolation: 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 Clear Iridite Compliant Available
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Weight: 1 lb
 Size: 3.0 x 3.0 x 2.25"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D5253-10	N Female	N Female	N Female
D5253-12	N Female	SMA	SMA
D5253-102	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.

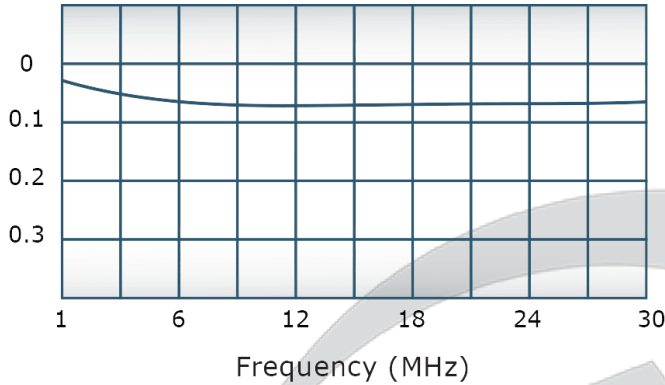


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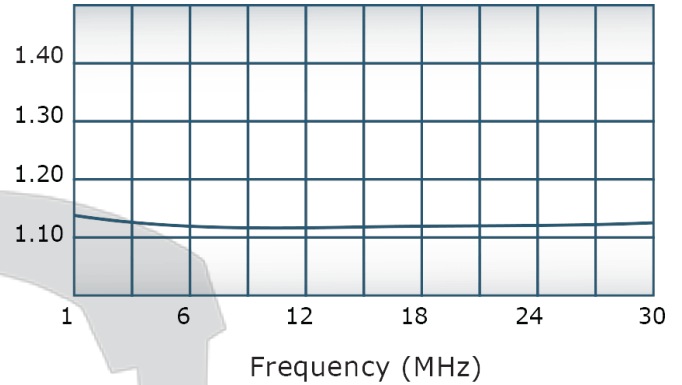
D5253

Performance Data (Specifications subject to change without notice):

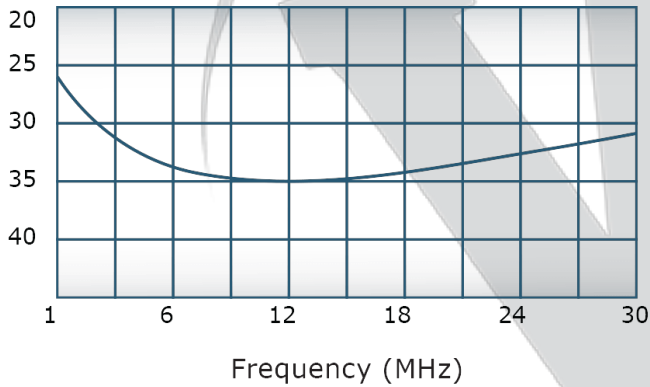
Insertion Loss:



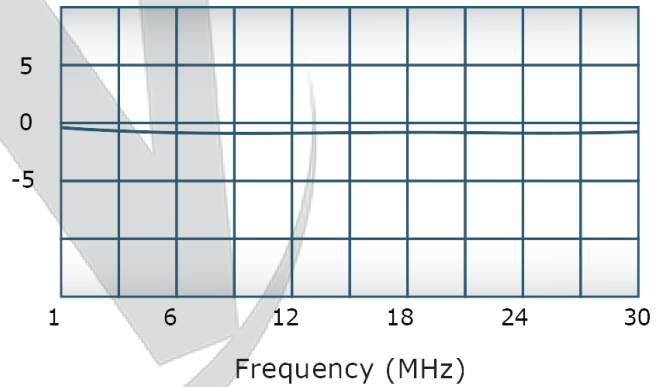
VSWR:



Isolation:



Phase Balance:



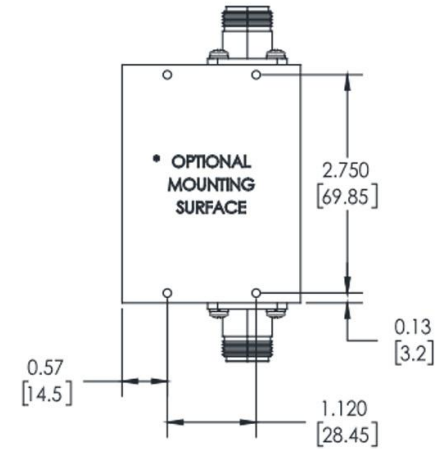
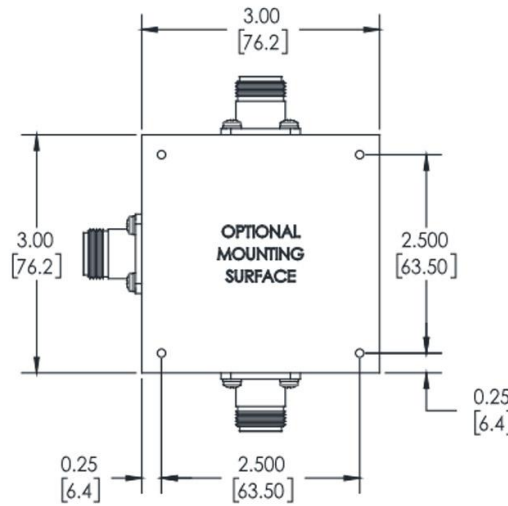
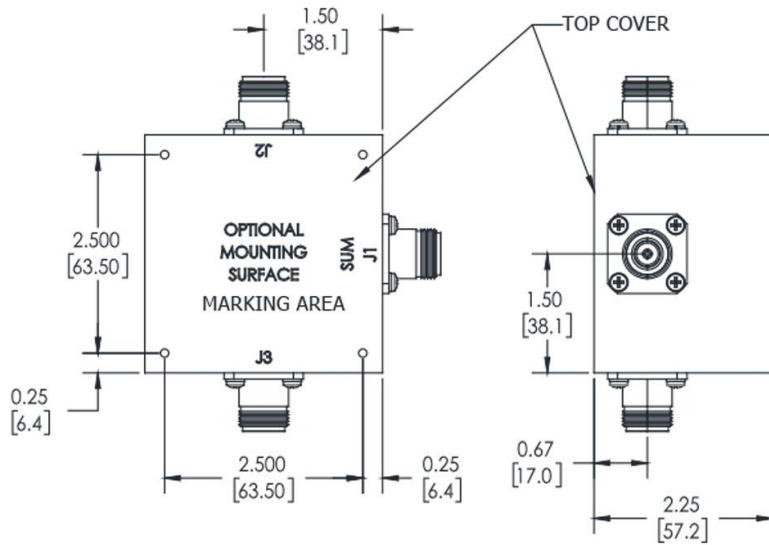
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Werlatone, Inc.

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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

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

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
• INTERPRET DRAWING SAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHESES INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL ± .005 (13) 2 PL ± .015 (10) • REMOVE ALL BURRS AND SHARP EDGES R.03 MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL WORKMANSHIP .003 MAX.		SD	7/16/2019				
NEXT ASSY		CHK	DATE	TITLE OUTLINE			
USED ON		ENGR	DATE				
APPLICATION		NFRG	DATE	SIZE	CAGE CODE	DWG NO	REV
THIRD ANGLE PROJECTION		QA	DATE	B		10034-500	C
		RLSE	DATE	SCALE	1:1.5		SHEET 1 OF 1

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