


**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:**

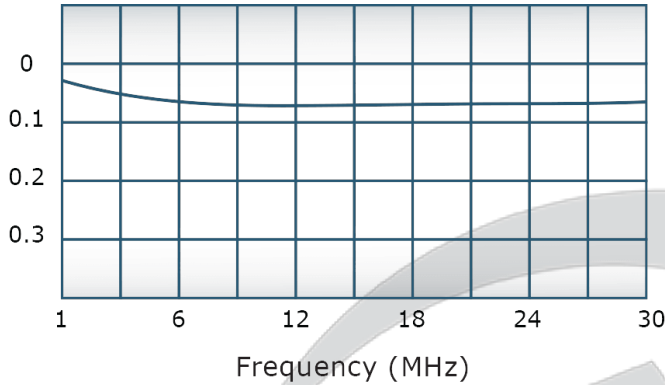
Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D5253-10	N Female	N Female	N Female
D5253-12	N Female	SMA	SMA
D5253-102	SMA	SMA	SMA

**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.

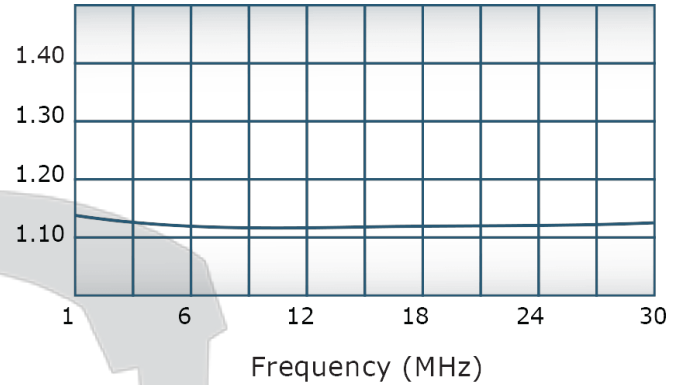


## Performance Data (Specifications subject to change without notice):

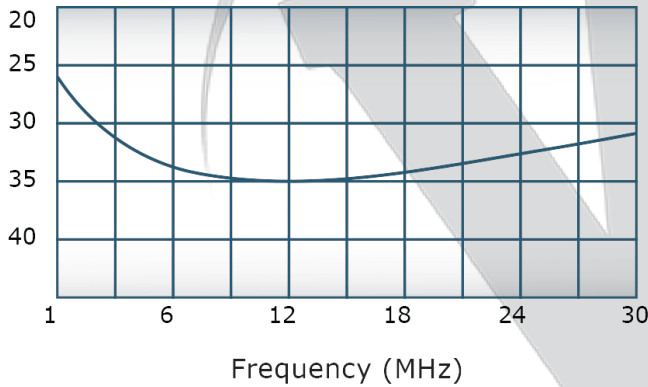
Insertion Loss:



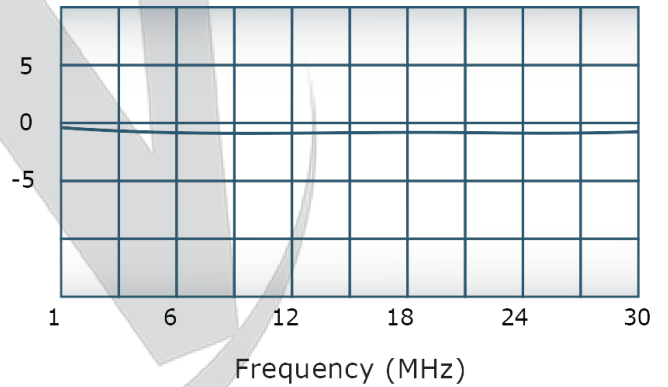
VSWR:



Isolation:



Phase Balance:

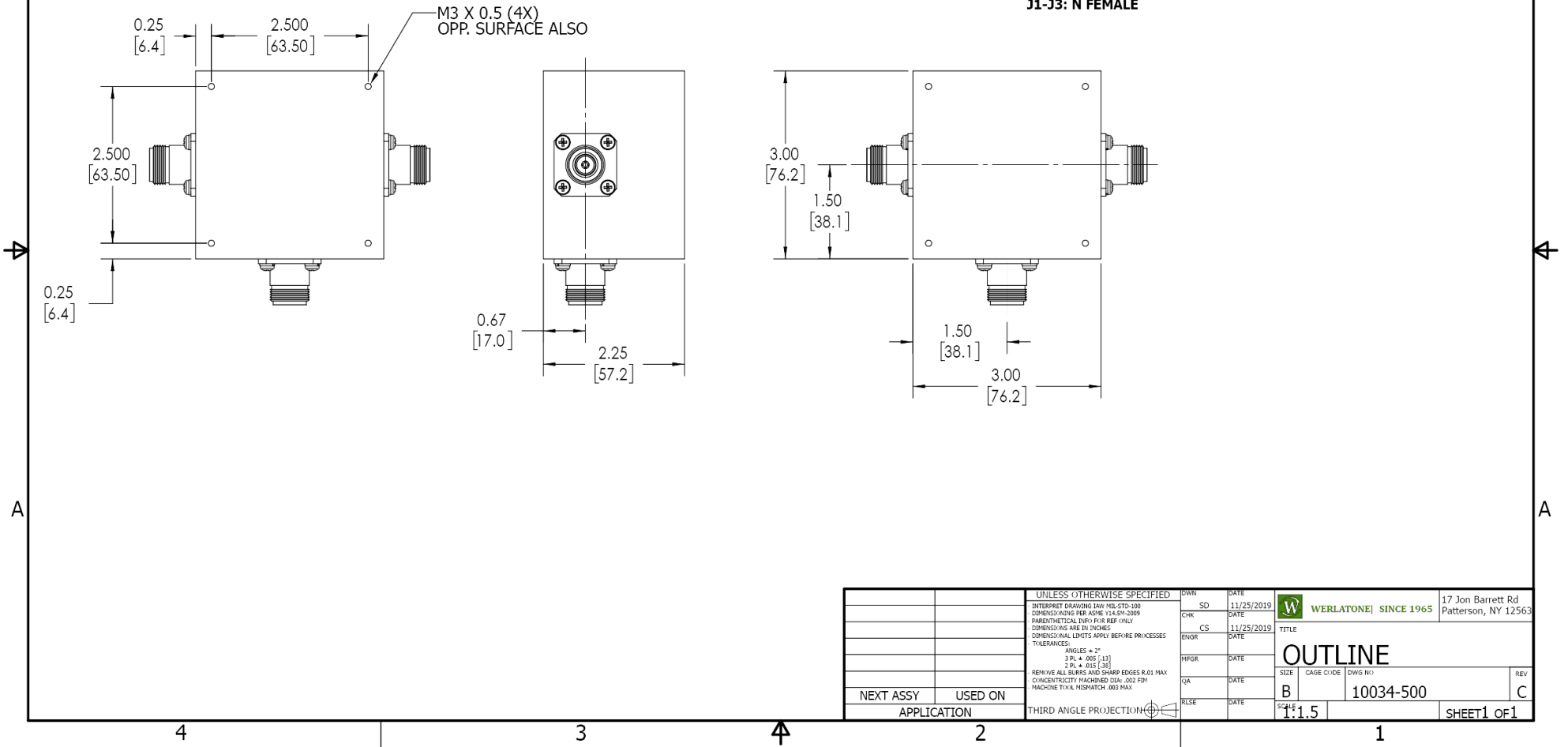


**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**  
 This document contains proprietary information which is the sole property of Werlatone, Inc.

REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1545	9/98	CS
B	ECN 4261	6/18/07	JE
C	ECN 9696	11/25/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS: J1-J3: N FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	11/25/2019		
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE		TITLE
PARENTHEetical INFO FOR REF ONLY	CS	11/25/2019		
DIMENSIONS ARE IN INCHES	ENGR	DATE		REV
DIMENSIONAL LIMITS APPLY BEFORE FINISHES	INFR	DATE		C
TOLERANCES:	QA	DATE		
ANGLES = 2°	RLSE	DATE		
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				
NEXT ASSY	USED ON	SCALE		SHEET 1 OF 1
APPLICATION	THIRD ANGLE PROJECTION	1:1.5		

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com