
**PRODUCT DATA SHEET**
**D10854**

**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:                      200 - 1000 MHz  
 Power:                              1200 W CW  
 Insertion Loss:                0.65 dB Max.  
 VSWR:                              1.35:1 Max.  
 Phase Balance:                ± 5° Max.  
 Amplitude Balance:         0.3 dB Max.  
 Isolation:                         15 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  
 Weight:                             4.0 lbs.  
 Size:                                 5.7 x 4.7 x 1.75"

**Connector Configurations:**

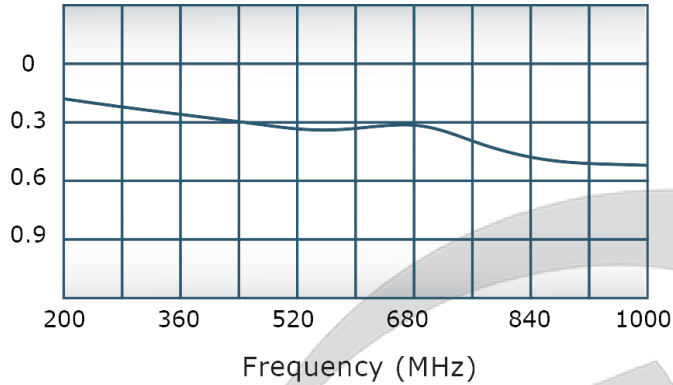
Model	Sum Port (J1)	Input/Output (J2-J5)
D10854-10	N Female	N Female
D10854-20	7/16 Female	N Female
D10854-22	7/16 Female	SMA
D10854-41	SC Female	N Female

**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.

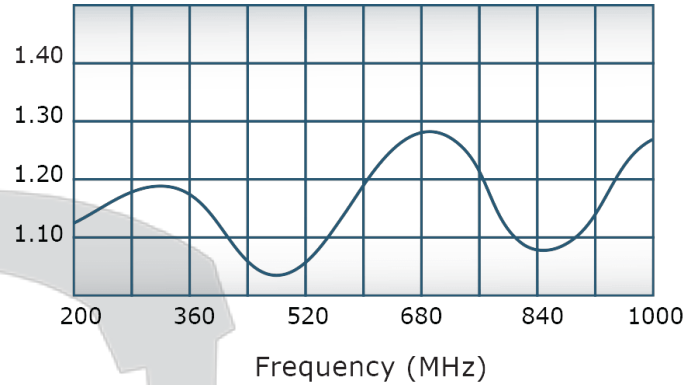


### Performance Data (Specifications subject to change without notice):

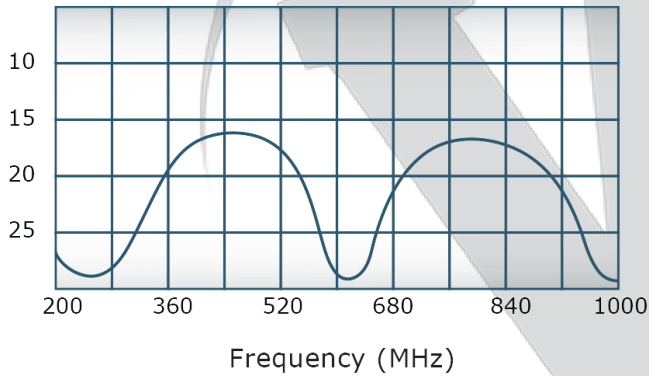
Insertion Loss:



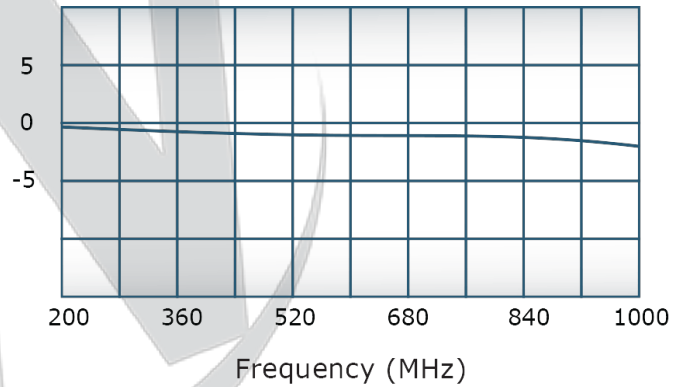
VSWR:



Isolation:

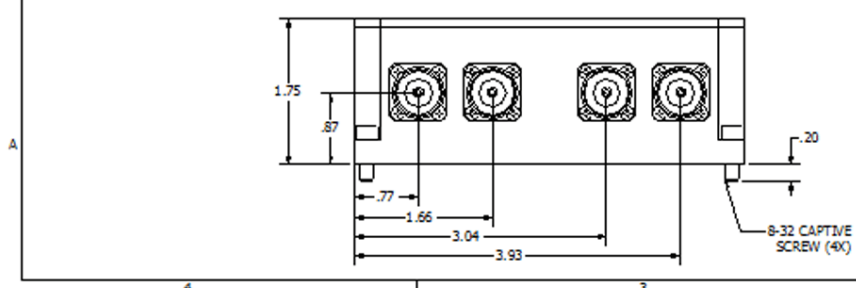
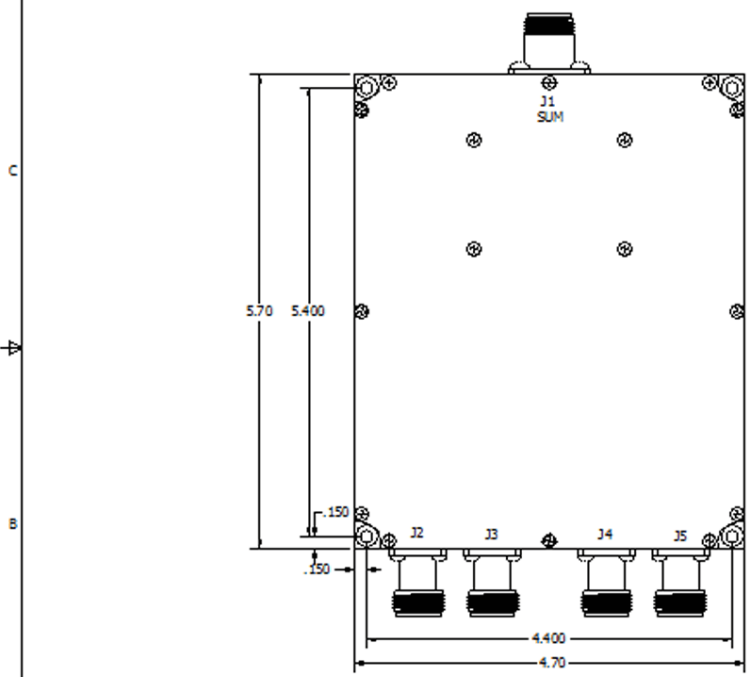
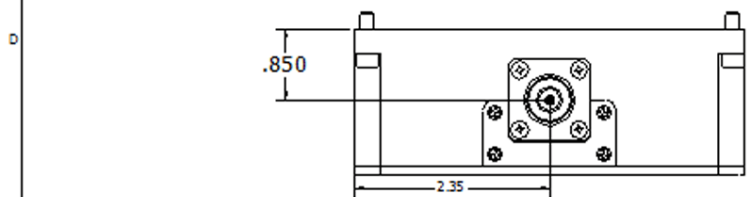


Phase Balance:



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REVISION HISTORY						
DATE	REV	REVISION RECORD	AUTH	CHK	APPV	
7/28/11	-	INITIAL RELEASE	PR			
5/28/13	A	8198	PR			
12/14/18	B	9718	PK			



UNLESS OTHERWISE SPECIFIED

- \* INTERIOR OF DRAWING SHOWN UNLESS NOTED
- \* DIMENSIONS PER ASME Y14.5M-2009
- \* PRACTICAL TOLERANCES ONLY
- \* DIMENSIONS ARE IN INCHES
- \* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES

\* TOLERANCES

ANGLES	▲ .5°
XXX	▲ .005
XXX	▲ .015

- \* HOLE TOLERANCES = DIA +/- DIA
- \* REMOVE ALL BURS AND SHARP EDGES: 0.1 R MAX
- \* CONFORM TO CTY MACHINE DIAL: 0.05 FDI
- \* MACHINE TOOL VARIATION: 0.05 MAX

THIRD ANGLE PROJECTION

DATE	7/28/2011	WERLATONE   SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
DESIGNED BY	PR	TITLE	
DATE		OUTLINE	
DESIGNED BY		D9075	
DATE		REV	DATE
DATE		C	28812
DATE		20788-500	REV B
DATE		SCALE	1:1
DATE		SHEET 1 OF 1	

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