

PRODUCT DATA SHEET

D11839

CW Power limitations of a Radial Combiner structure are removed as there is no longer a Coaxial to Waveguide transition limiting your CW Power and/or higher Duty Cycles at Peak Power operation.

Werlatone® has developed a new class of patented pending microwave power combiners with extremely High Power handling capability. This Combiner class is designed to operate over the full bandwidth of a given waveguide connector. Furthermore, the CW power handling of each Combiner is only limited to the power rating of the specific waveguide connector utilized. More Bandwidth and Higher CW Power Handling.

Features:

High Power Wide Bandwidths Low Loss Custom Designs Available

Electrical Specifications:

Frequency:	5300-5900 MHz
Power:	8,000 W CW
Insertion Loss:	0.15 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	$\pm 5^\circ$ Max.
Isolation:	Non-Isolated

Mechanical Specifications:

Type:	E-Plane Combiner
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite)
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	19.32 x 17.97 x 3.19"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J17)
D11839-C02	WR159	Half Height WR159

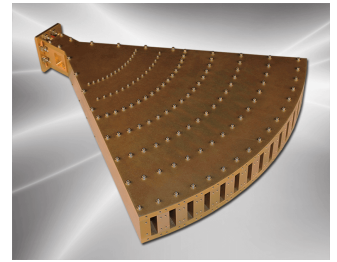
Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-Way Combiners are available upon request.



WERLATONE

Model D11839

Combiners E-Plane In-Phase Connectorized



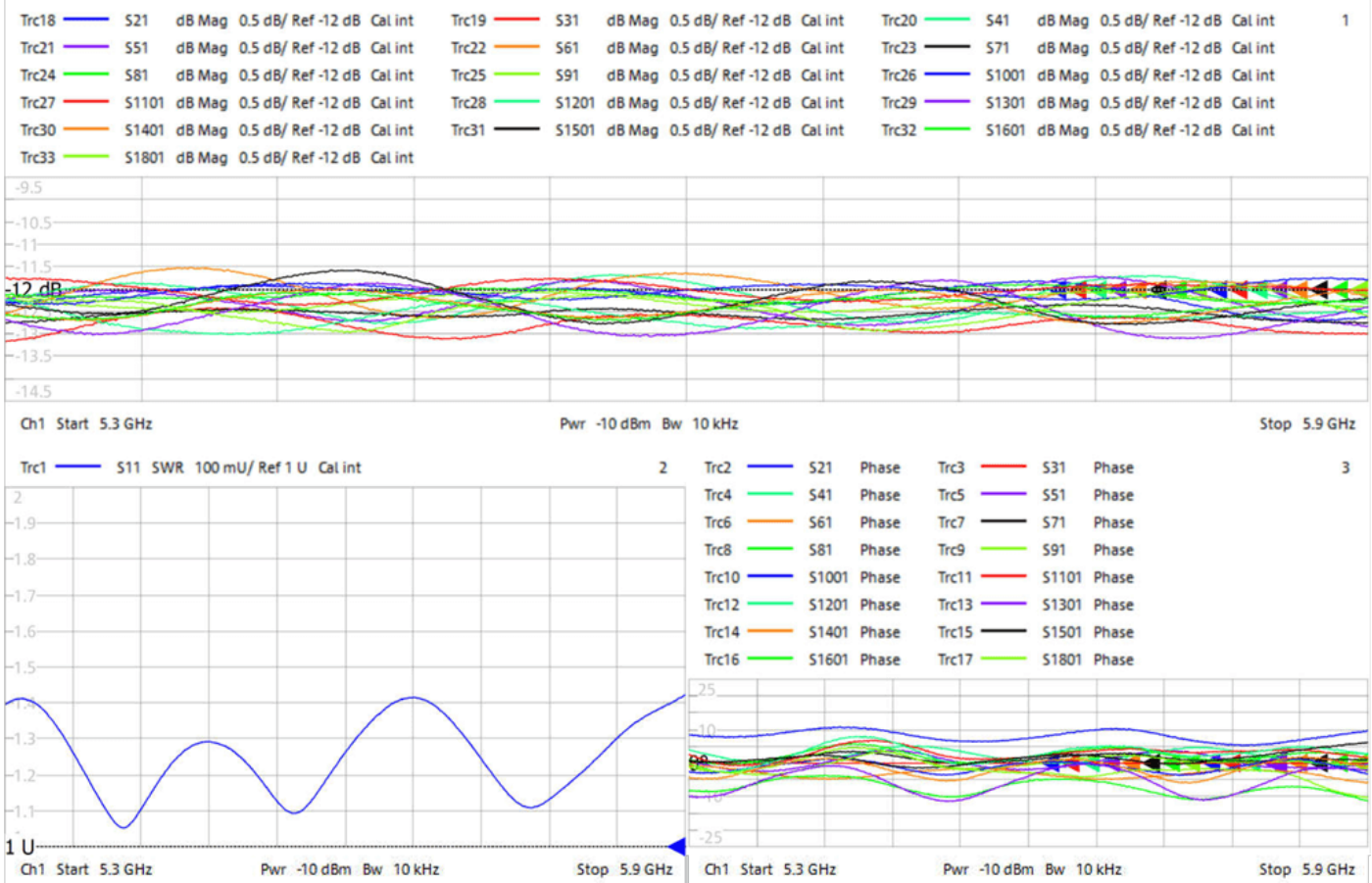
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Performance Data (Specifications subject to change without notice):



2/6/2020 11:23:31 AM
1318.7006K24-102107-jp



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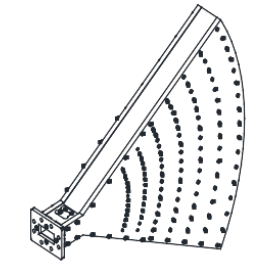
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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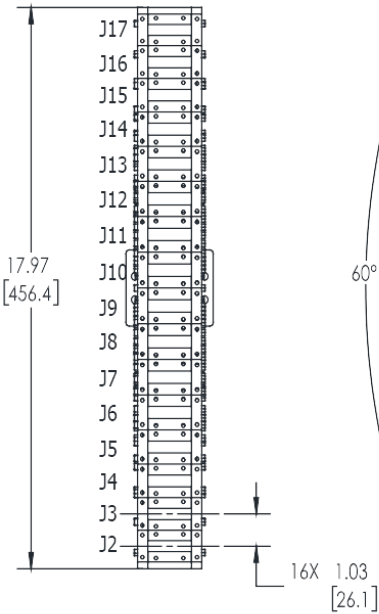
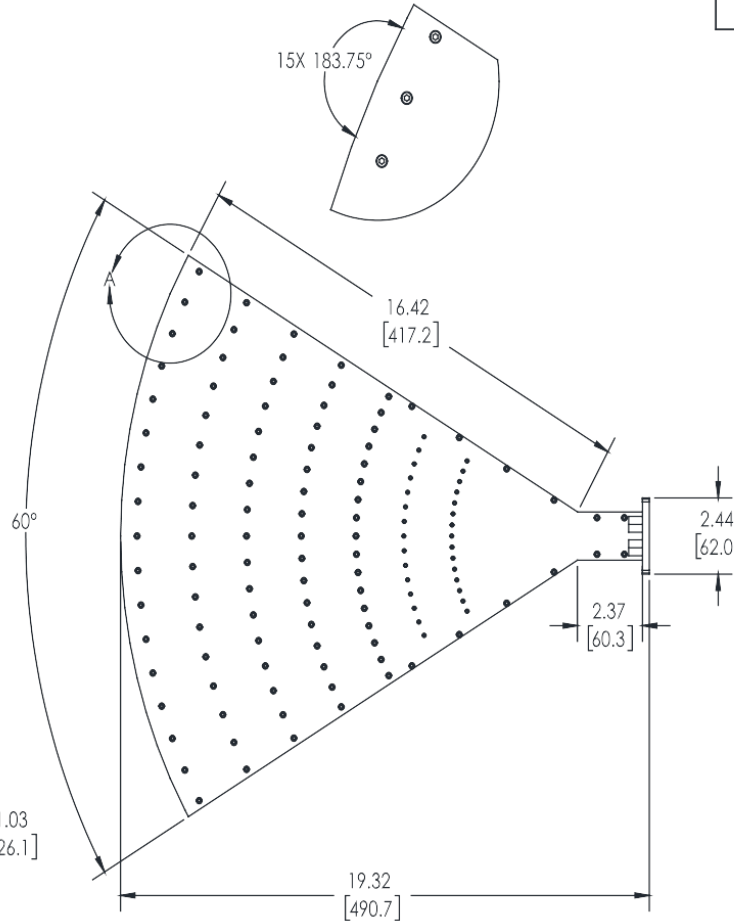
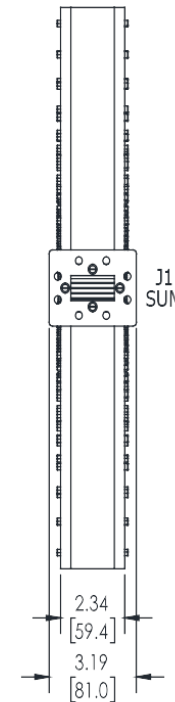
DETAIL A
SCALE 1 : 2
INPUT TO ADJACENT INPUT ANGLE

REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/13/2020	CS



VIEW FOR REFERENCE ONLY
SCALE 1:8



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:** ALUMINIUM 6061-T6.
- FINISH:** CHEM-FILM PER MIL-DTL-5541F TYPE I, CLASS 3 (YELLOW IRIDITE).
- CONNECTORS:**
J1: WR159 CPRF.
J2-J17: HALF HEIGHT WR159 CUSTOM FLANGE.

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C • DIMENSIONS ARE IN INCHES (mm) • DIMENSIONS ARE IN INCHES (mm) • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL. ± .005 (13) 2 PL. ± .005 (13) • REMOVE ALL BURRS AND SHARP EDGES R.02 MAX • CONCENTRICITY MAXIMUM DIA. .002 FIM • MACHINE TOOL, RESURFACE .003 MAX		CHK	DATE	
D11839		ENGR	DATE	OUTLINE SIZE CAGE CODE DWG NO B 28812 21699-500
USED ON		SF	DATE	
APPLICATION		PRGR	DATE	SCALE 1:4 SHEET 1 OF 1
THIRD ANGLE PROJECTION		QA	DATE	
		ELSE	DATE	REV -

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