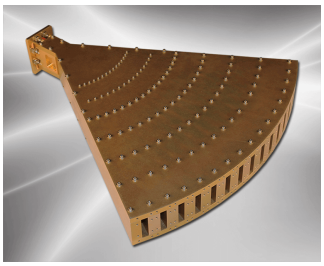
WERLATONE

Model D11839
Combiners E-Plane In-Phase Connectorized



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:	± 5° Max.
Isolation:	Non-Isolated

Mechanical Specifications:

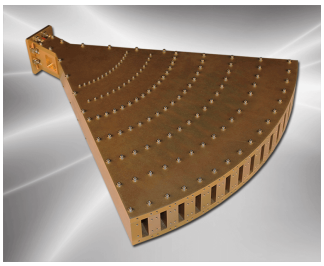
Type:	E-Plane Combiner
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite)
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	19.32 x 17.97 x 3.19"

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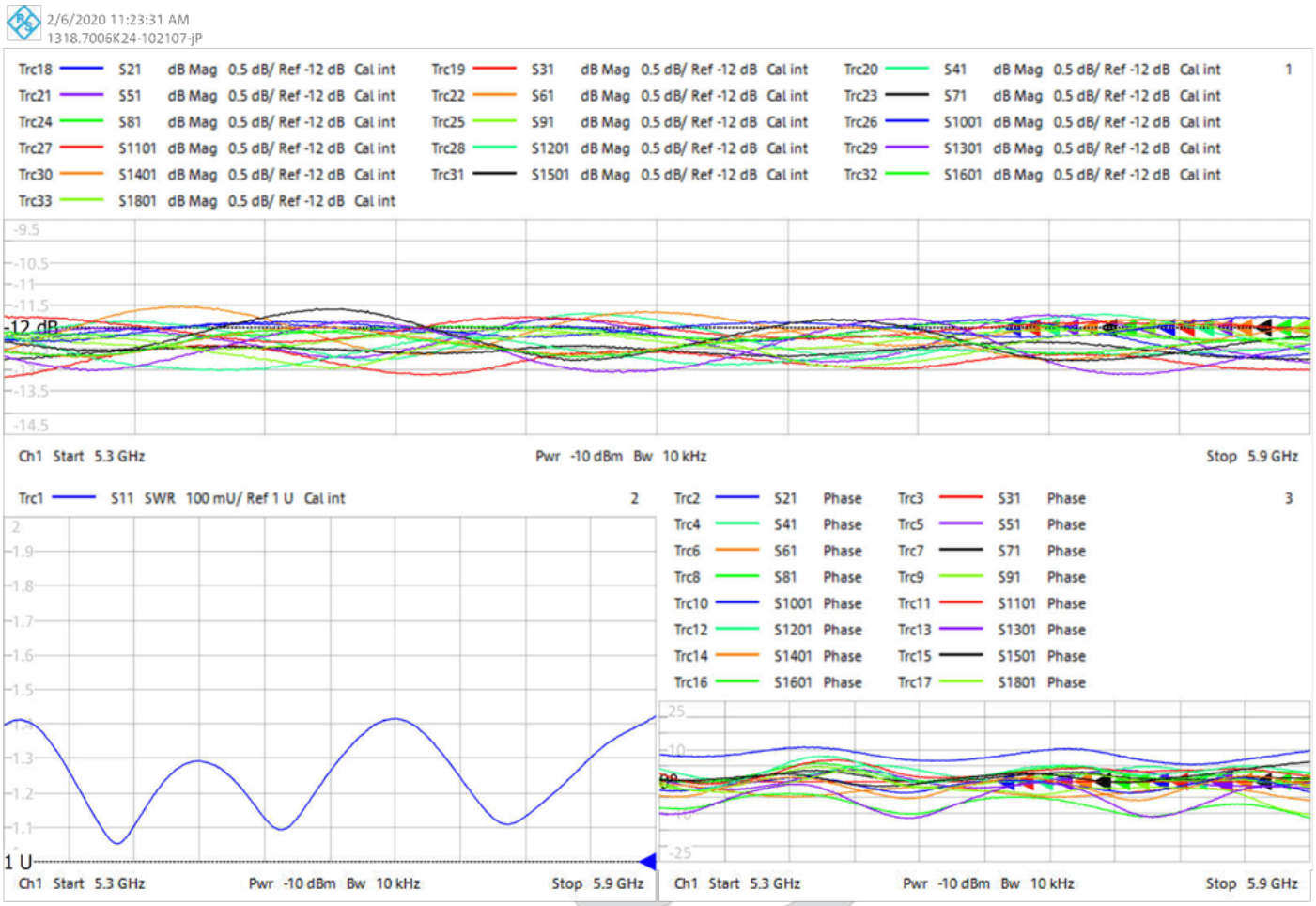
Performance Data (Specifications subject to change without notice):



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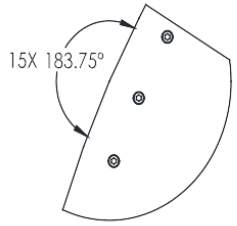
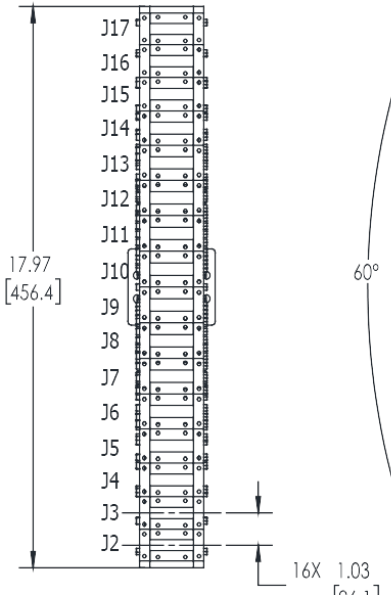
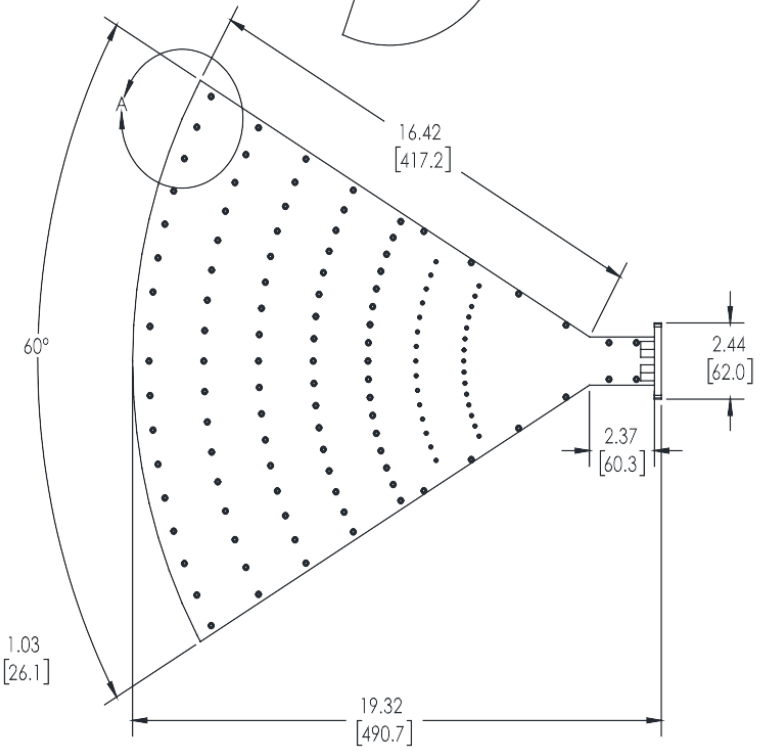
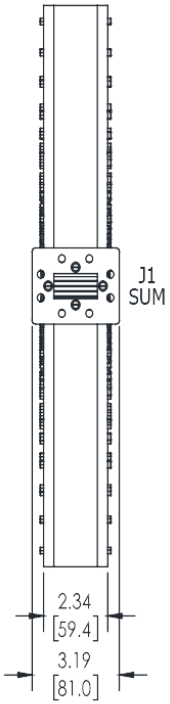
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/13/2020	CS

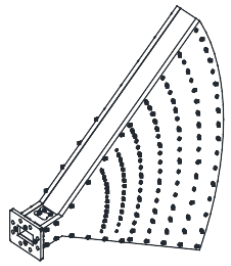
DETAIL A
SCALE 1 : 2
INPUT TO ADJACENT INPUT ANGLE











VIEW FOR REFERENCE ONLY
SCALE 1:8

NOTES: UNLESS OTHERWISE SPECIFIED

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

	D11839
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5M-2009
- PARENTHETICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES [mm]
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- TOLERANCES:
  ANGLES ± 2°
  3 PL ± .005 [.13]
  2 PL ± .015 [.4]
- REMOVE ALL BURRS AND SHARP EDGES R.01 MAX
- CONCENTRICITY MACHINED DIA: .002 FIM
- MACHINE TOOL MISMATCH .003 MAX

THIRD ANGLE PROJECTION

		DATE
DWN	WD	2/13/2020
CHK	CS	2/13/2020
ENGR	SF	6/11/2019
MFGR		
QA		
RLSE		

WERLATONE SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE: OUTLINE

SIZE	CAGE CODE	DWG NO	REV
B	28812	21699-500	-

SCALE 1:4 SHEET 1 OF 1

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