



# WERLATONE

Model D10119

Combiners In-Phase Connectorized Radial



## PRODUCT DATA SHEET

**D10119**

**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

Custom Designs Available

### Electrical Specifications:

Frequency:	700 - 4200 MHz
Power:	2000 W CW
Insertion Loss:	0.3 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	± 6° Max.
Amplitude Balance:	0.3 dB Max.
Isolation:	Non-Isolated

### 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:	5.0 lbs.
Size:	

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D10119-500	13-30 DIN (F)	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.



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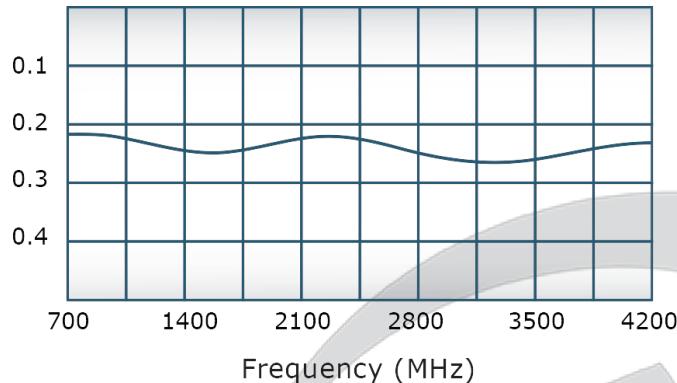


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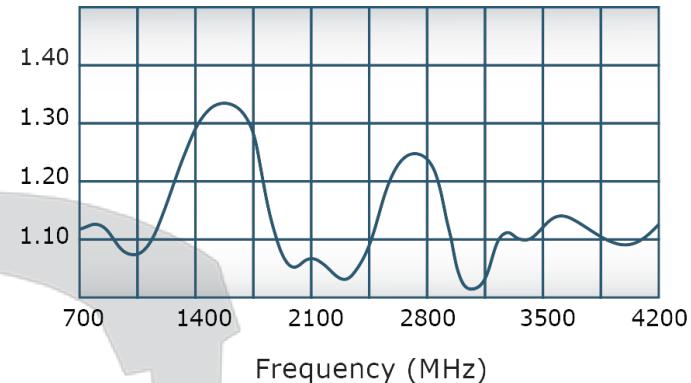
D10119

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

Insertion Loss:



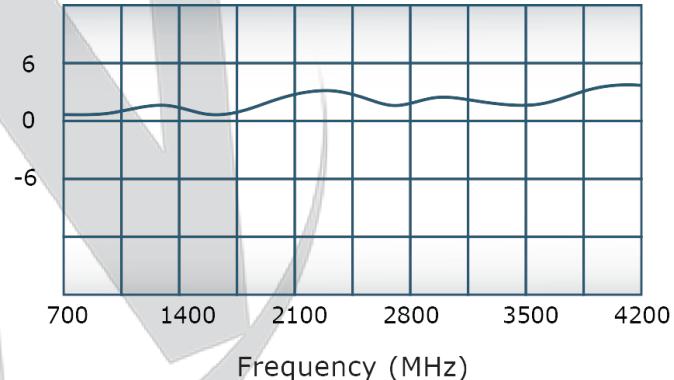
VSWR:



Since 1965:



Phase Balance:



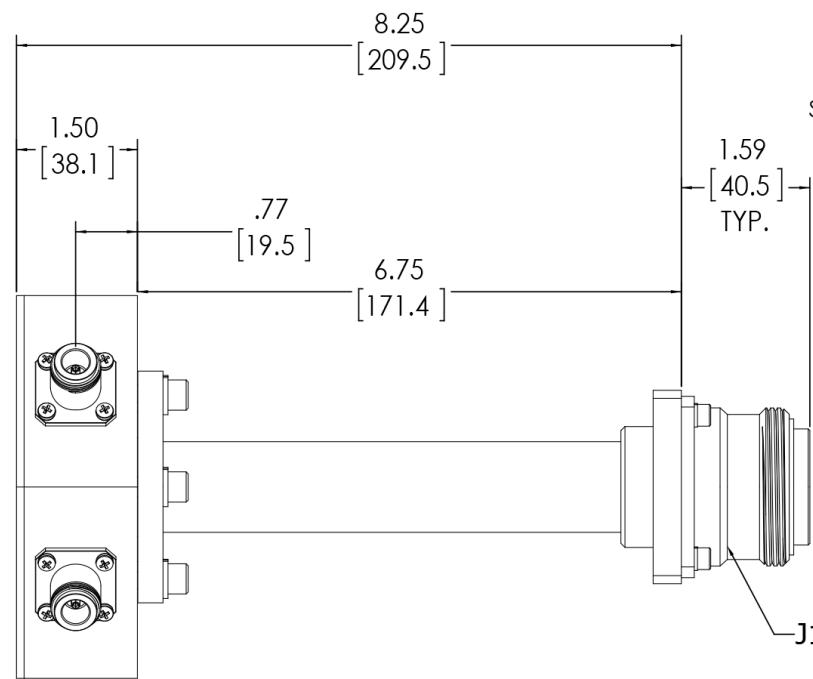
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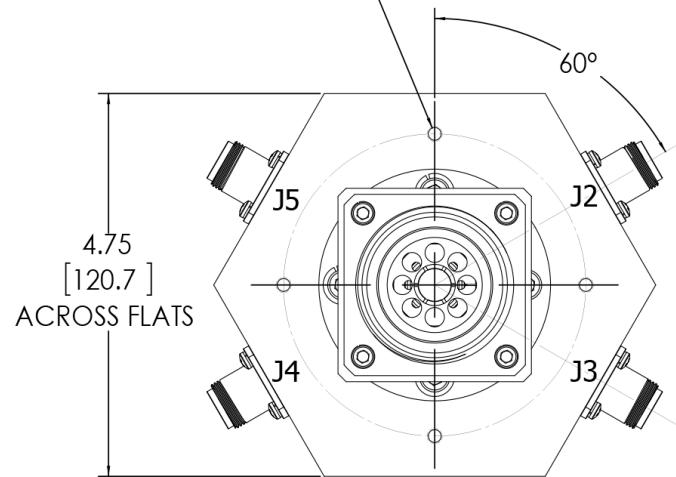
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REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL-RELEASE	11/21/2014	BW



4X TAP 10-32  $\sqrt{V}$  .45 [11.4]  
SPACED 90° ON A 3.750 [95.3]  $\pm .003$  BC



UNLESS OTHERWISE SPECIFIED		DWG	DATE	WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING JAW MIL-STD-100		GP	11/21/2014				
DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE				
PARENTHEtical INFO FOR REF ONLY		CS	11/21/2014				
DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE			
TOLERANCES: ANGLES $\pm .2$		GP	11/21/2014				
3 P. R. $\pm .005$		MFGR	DATE				
PL. $\pm .015$		QA	DATE				
REMOVE ALL BURRS. PL. $\pm .015$		RLSE	DATE				
EDGES .015 MAX							
CONCENTRICITY MACHINED .004-.003 MAX							
MACHINED TOOL MISMATCH .002 MAX.							
D10119 4-WAY COMBINER/DIVIDER		SIZE	CAGE CODE	DWG NO		REV	-
APPLICATION	THIRD ANGLE PROJECTION	C	28812	21218-500			
		SCALE	1:1				
							Sheet 1 of 1

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