
**PRODUCT DATA SHEET**
**D9706**

**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:	2700-3500 MHz
Power:	2,000 W CW
Insertion Loss:	0.35 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	± 5° Max.
Amplitude Balance:	± 0.3 dB Max.
Isolation:	Non-Isolated

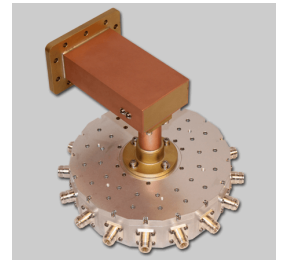
**Mechanical Specifications:**

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type II Class 3 (Clear/RoHS)
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	RADIAL

**Connector Configurations:**

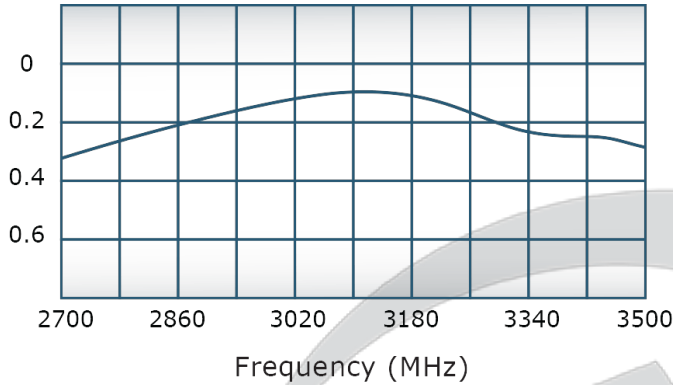
Model	Sum Port (J17)	Input/Output (J1-J16)
D9706-WG10	WR284	N Female
D9706-WG10RA	WR284	Rt. Angle N Female

**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.

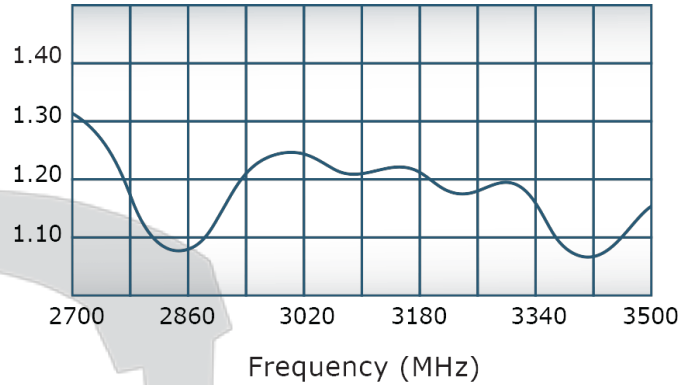


## Performance Data (Specifications subject to change without notice):

Insertion Loss:



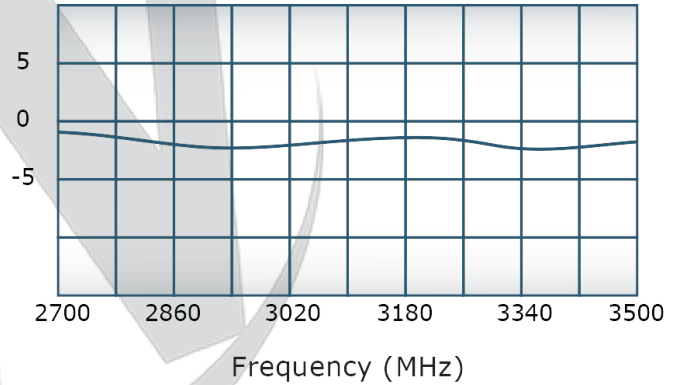
VSWR:



Since 1965:



Phase Balance:



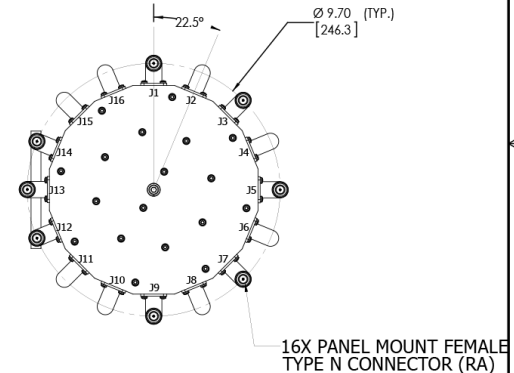
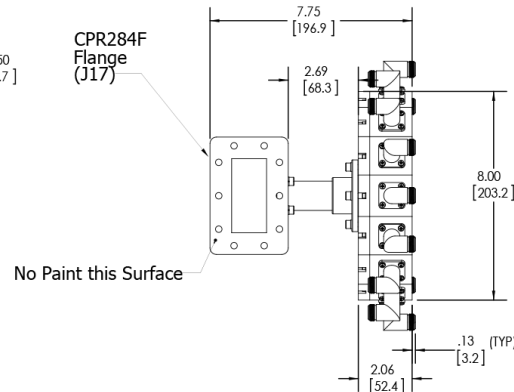
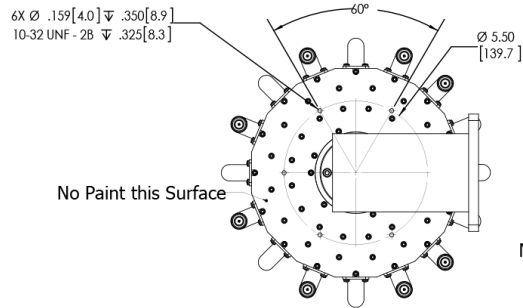
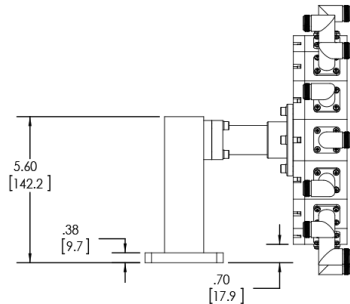
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Werlatone, Inc.

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REV.	REVISION RECORD	DATE	APPROVED
-		2/4/13	BW
A	ECN 7964	2/11/13	BW
B	ECN 8051	4/2/2013	BW
C	ECN 8199	5/28/13	BW



UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	CP	4/2/2013	WERLATONE SINCE 1965	
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE		
ISOMETRIC DIMENSIONS FOR REF ONLY	CS	2/4/2013	TITLE	
DIMENSIONS ARE IN INCHES (mm)	ENGR	DATE		
DIMENSIONAL UNITS APPLY BEFORE PROCESSES	MPGR	DATE	16-Way Radial Power Combiner	
TOLERANCES:	QA	DATE	SIZE CAGE CODE [DWG NO]	REV
ANGLES = 3°	RELE	DATE	B 28812 20998-500	C
3 RL ± .005 [13]			SCALE 1:4	SHEET 1 OF 1
2 RL ± .015 [38]				
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
CONDUCTIVITY FINISHED OR .002 FPM				
MACHINE TOOL MISMATCH .003 MAX				
20998-300 Rev.B	USED ON			
NEXT ASSY	APPLICATION			

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