
PRODUCT DATA SHEET
H6286

Werlatone® High Power 180° RF Hybrid Combiners/Dividers balance traditional technologies with disruptive microwave techniques. The outcome is a microwave component which provides an order of magnitude improvement over current capabilities. Our newest line of high power, patented 180° RF Hybrid Combiners/Dividers provides an incredible 5:1 bandwidth, while exhibiting exceptionally low loss and superior port-to-port isolation.

Features:

High Power Wide Bandwidths Small Size Excellent Amplitude Balance

Electrical Specifications:

Frequency: 2 - 32 MHz
 Power: 1000 W CW
 Insertion Loss: 0.3 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: 180° ± 5° Max.
 Amplitude Balance: ± 0.1 dB Max.
 Isolation: 20 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 lbs. 4 oz.
 Size: 8.25 x 4.5 x 2.69"

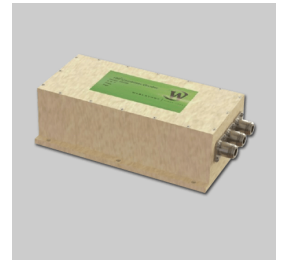
Connector Configurations:

Model	Sum Port (J1)	Inputs (J3,J4)	Diff. Port (J2)
H6286-10	N Female	N Female	N Female
H6286-20	7/16 Female	N Female	N Female
H6286-41	SC Female	N Female	N Female

Werlatone's standard line of High Power 180° RF Hybrid Combiners/Dividers covers multiple octaves within a microwave device. Low frequency 180° Hybrid Combiner/Dividers employ proprietary ferrite transmission line techniques, similar to our 0° Combiners/Dividers. Insertion loss in both sum and difference ports is minimal, allowing the hybrid to handle high power over its frequency range. Custom requirements are welcome.

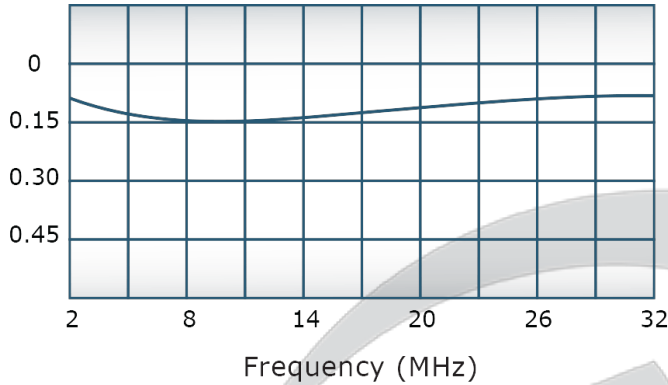
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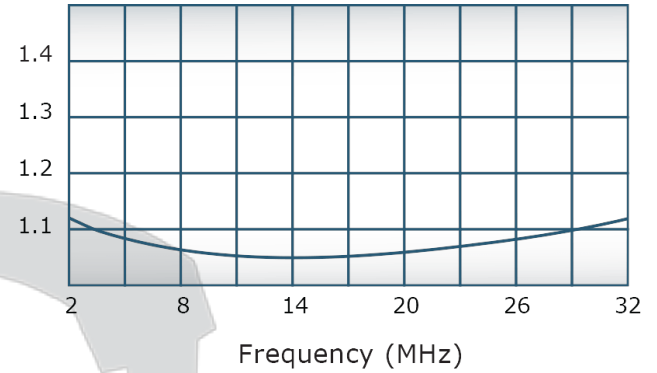


Performance Data (Specifications subject to change without notice):

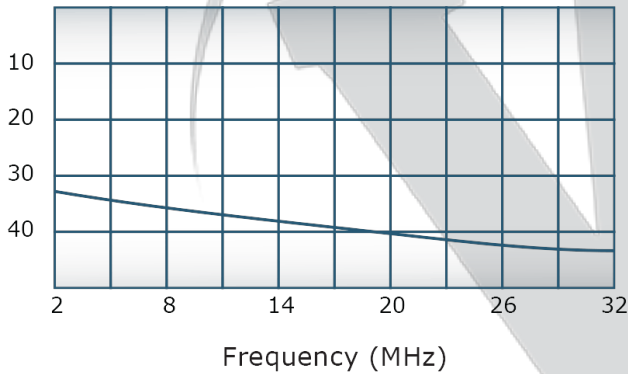
Insertion Loss:



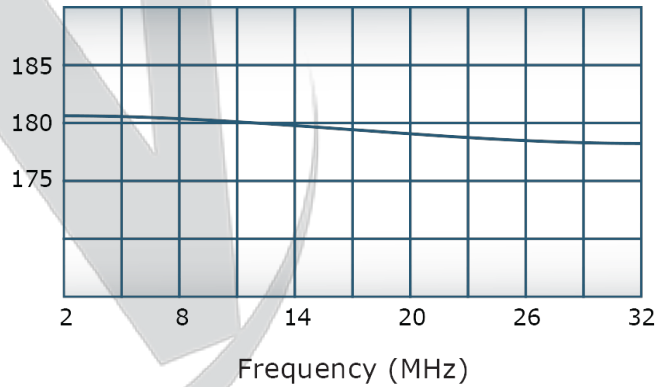
VSWR:



Isolation:



Phase Balance:



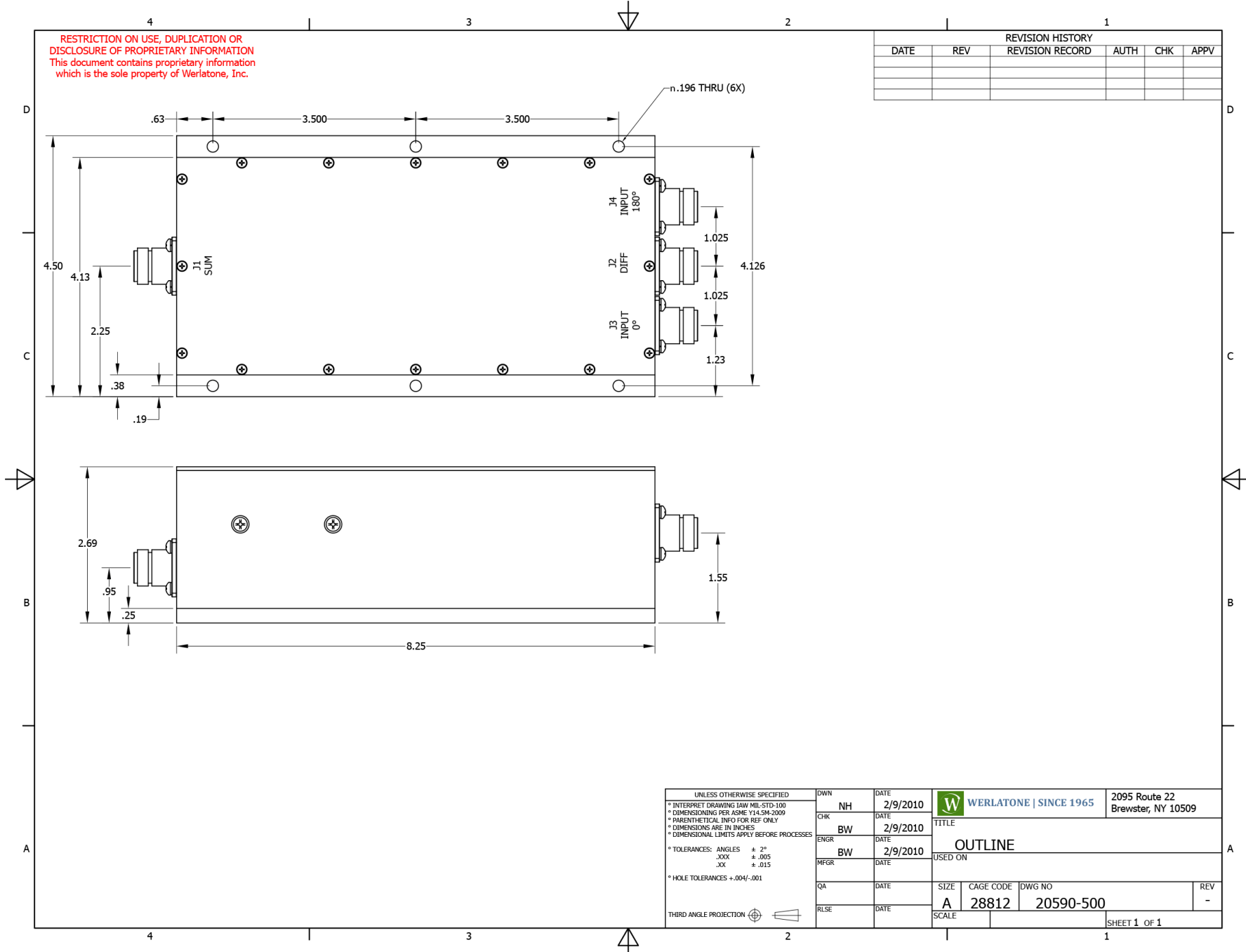
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



UNLESS OTHERWISE SPECIFIED
 * INTERPRET DRAWING IAW MIL-STD-100
 * DIMENSIONING PER ASME Y14.5M-2009
 * PARENTHETICAL INFO FOR REF ONLY
 * DIMENSIONS ARE IN INCHES
 * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 * TOLERANCES: ANGLES ± 2°
 .XXX ± .005
 .XX ± .015
 * HOLE TOLERANCES +.004/-.001
 THIRD ANGLE PROJECTION

DWN	DATE	2/9/2010
NH	DATE	2/9/2010
CHK	DATE	2/9/2010
BW	DATE	2/9/2010
ENGR	DATE	2/9/2010
BW	DATE	2/9/2010
MFR	DATE	
QA	DATE	
RLSE	DATE	

WERLATONE SINCE 1965 2095 Route 22 Brewster, NY 10509	
TITLE	
OUTLINE	
USED ON	
SIZE	CAGE CODE
A	28812
DWG NO	REV
20590-500	-
SCALE	SHEET 1 OF 1

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