



## PRODUCT DATA SHEET

H6287

**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: 0.1 - 50 MHz  
 Power: 500 W CW  
 Insertion Loss: 0.5 dB Max.  
 VSWR: 1.30:1 Max.  
 Phase Balance:  $180^\circ \pm 6^\circ$  Max.  
 Amplitude Balance:  $\pm 0.2$  dB Max.  
 Isolation: 30 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: 8 lbs. 4 oz.  
 Size: 9.0 x 8.0 x 3.61"

### Connector Configurations:

Model	Sum Port (J4)	Inputs (J2,J3)	Diff. Port (J1)
H6287-10	N Female	N Female	N Female
H6287-12	N Female	SMA	SMA
H6287-102	SMA	SMA	SMA

**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.



# WERLATONE

Model H6287

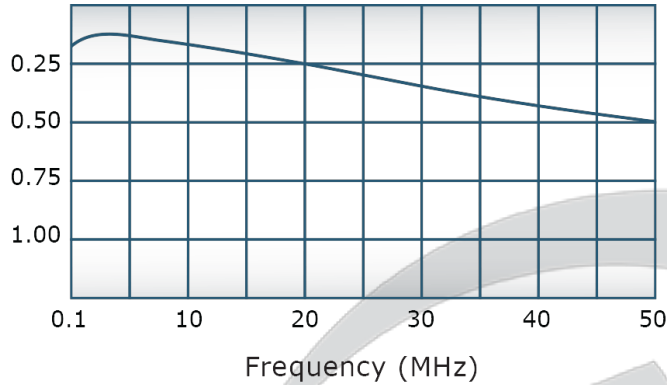


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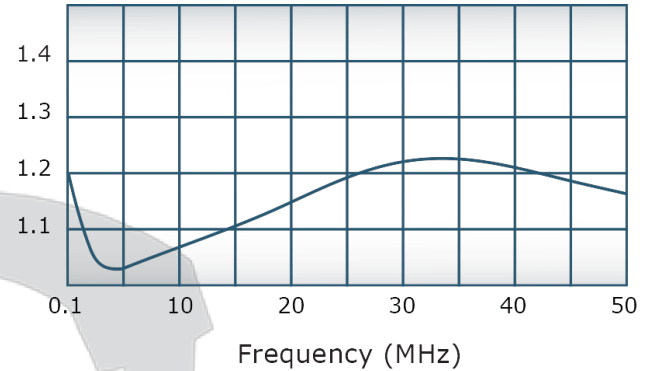
H6287

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

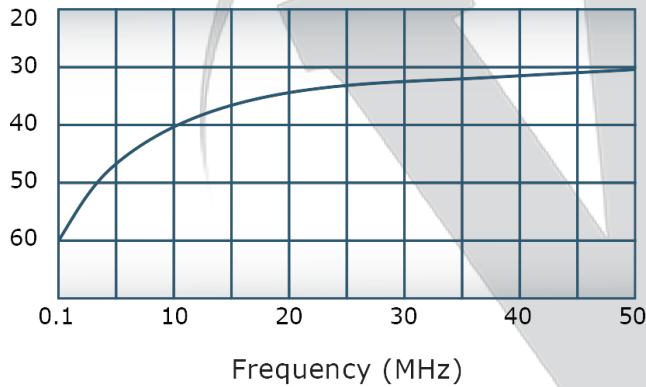
Insertion Loss:



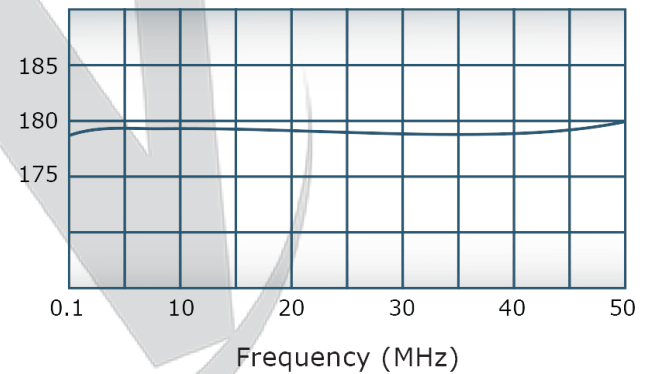
VSWR:



Isolation:

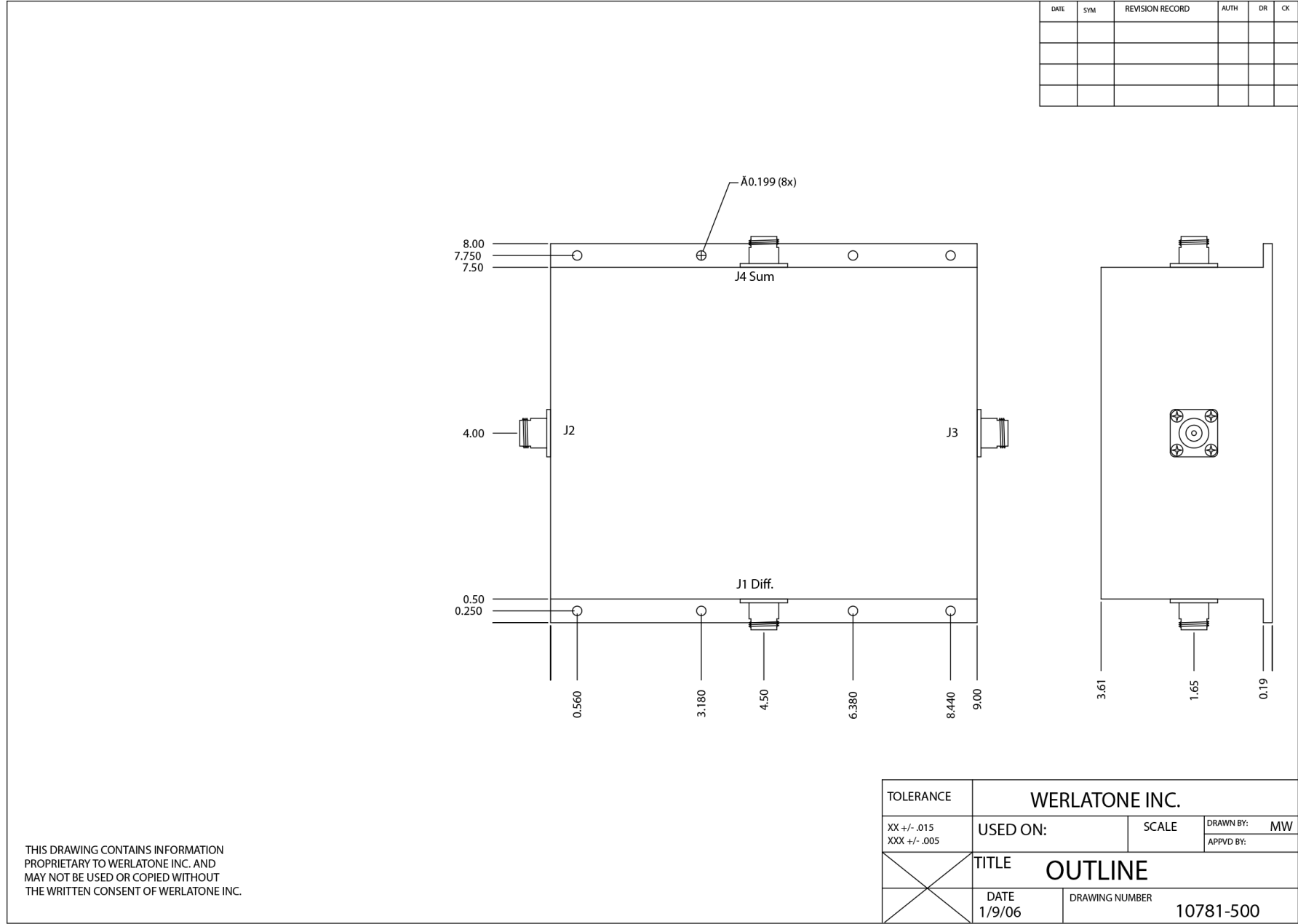


Phase Balance:



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