



## PRODUCT DATA SHEET

H12489

**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:	2000 - 6000 MHz
Power:	150 W CW
Insertion Loss:	0.65 dB Max.
VSWR:	1.50:1 Max.
Phase Balance:	180° $\pm$ 8° Max.
Amplitude Balance:	$\pm$ 0.4 dB Max.
Isolation:	20 dB Min.

### Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Plating Options:	H12489-Ag: Immersion Silver (RoHS)
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	1.26 x 0.65 x 0.13"

### Port Configurations:

<b>Model</b> H12489	<b>J1</b> Difference Port	<b>J2, J3</b> Input Ports	<b>J4</b> Sum Port
------------------------	------------------------------	------------------------------	-----------------------

**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.

**PRODUCT DATA SHEET**

**H12489**

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

Coupling:

VSWR:

Isolation:

Phase Balance:



**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc. Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com