

PRODUCT DATA SHEET H1846

**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: 88 - 108 MHz
Power: 1200 W CW
Insertion Loss 0.2 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: 180° ± 3° 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:  $-55^{\circ}$ C to  $+75^{\circ}$ C Storage Temperature:  $-60^{\circ}$ C to  $+85^{\circ}$ C Size:  $3.0 \times 6.0 \times 2.25^{\circ}$ 

## **Connector Configurations:**

ModelSum Port (J1)Ext. Load Port (J2)Inputs (J3,J4)H1846-10N FemaleN 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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