

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: $180^\circ \pm 8^\circ$ Max.
Amplitude Balance: ± 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:

Model	J1	J2, J3	J4
H12489	Difference Port	Input Ports	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.



WERLATONE

Model H12489

180° Hybrids Surface Mount (SMT) & Drop-In

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Performance Data (Specifications subject to change without notice):

Coupling:

VSWR:

Isolation:

Phase Balance:



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