

WR62 4-Way Combining System Assembly



Description

The WR62 Combining System Assembly is an RF device designed to deliver optimal performance within the 15.40 to 15.70 GHz frequency band. Its core functionality revolves around efficiently consolidating power from four RF sources through the integration of a 4-way power combiner along with a single loop coupler. At the core of this assembly, a high-power isolator is employed to safeguard the input sources from signal reflections, enhancing signal integrity. The loop coupler, a key component within the assembly, serves a dual purpose. It can be used to either sample input signals for analysis or monitor output power, offering precise adjustments tailored to the specific needs of diverse applications. The WR62 assembly distinguishes itself with its remarkable matching capabilities and minimal insertion loss, making it the preferred choice for applications that demand both enhanced signal strength and optimal efficiency within the specified frequency range. Whether for **high-performance amplifiers, satellite communication systems, or other critical applications**, the WR62 Combining System Assembly embodies the highest standards of reliability, precision, and signal quality in the RF systems.

Electrical Specifications

Frequency	: 15.40 – 15.70 GHz
VSWR – Input	: 1.10: 1
VSWR - Output	: 1.15: 1
Insertion Loss	: 0.20 dB
Isolation	: 30.0 dB
Power Handling - Peak	: 3.0 kW
Power Handling - Average	: 90 W CW
Duty Cycle	: 3%

Mechanical Specifications

Waveguide Size	: WR 62
Interface – Input Ports	: UG-1665/U Square Cover
Interface – Output Port	: UG-1665/U Square Grooved
Material	: Aluminum 6061
Finish	: Silver
Paint	: Black

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