

WR51 Double Attenuator Assembly

Description

The WR51 attenuator assembly is a highly advanced RF power management solution, engineered to deliver precision and reliability in challenging technical environments. Its core features include an integrated end launch adapter and a dual attenuator configuration, enabling precise control and real-time monitoring of RF power. A crucial element enhancing its versatility is the power divider, which efficiently splits the incoming signal into two distinct channels. Internally, the assembly incorporates strategically placed high power terminations, ensuring not only impeccable signal integrity but also acting as protective measures against potential source mismatches or unexpected power fluctuations, a critical consideration for the safety of connected equipment. What sets the WR51 attenuator assembly apart is its exceptional performance characteristics, offering a deep matching level and consistent flat attenuation across a wide operating frequency band. These qualities make it an ideal choice for **high power microwave systems, RF power monitoring applications, and satellite communications**, where precise and reliable signal management is essential.

Electrical Specifications

Frequency	: 17.30 – 20.70 GHz
VSWR – Input	: 1.25: 1
VSWR – Output	: 1.60: 1
Insertion Loss	: 1.2 dB
Nominal Coupling – Forward	: 30.0 dB \pm 1.5 dB
Nominal Coupling – Reverse	: 30.0 dB \pm 1.5 dB
Directivity	: > 14.0 dB
Power Handling – Average	: 20 W CW

Mechanical Specifications

Waveguide Size	: WR 51
Interface – Input Port	: Custom Half-Height Cover
Interface – Output Port	: SMA(f)
Material	: Aluminum 6061
Finish	: Silver
Paint	: Black



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WR51 Double Attenuator Assembly Typical Measured Results

