

Broadband Power Amplifier PEA001-1-100



PEA001-1-100 is a linear, broadband telecommunication and, broadband high power amplifier (100 W) making use of automatic measurement systems, broadband telecommunication and laboratories. The broadband and high gain enable the amplifier to gain signals from typical signal generators. After calibration the amplifier with antenna systems are used for generation of electromagnetic measurement fields. The device enable signal transmission with the following modulations: AM, FM, SSB and pulse.

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Broadband Power Amplifier

PEA001-1-100

GENERAL SPECIFICATION	
Frequency Range	1 , 1000 MHz
Output Power	> 100 W
Output Power @ 1 dB Gain Compression	≈ 75 W
Harmonic Distortion	20 dBc max. @ 75 W
Small Signal Gain when the gain is set to maximum	50 dB ± 2 dB
Small Signal Gain Flatness	< ± 2 dB
Gain Adjustment	20 dB min.
Flatness@ ALC switch on	± 0.8 dB
Input Impedance / VSWR	50 W nominal / 2:1 max.
Output Impedance	50 W nominal
Mismatch Tolerance	Without damage or oscillation / Will limit reflected power to 70 W.
Connectors Input/Output	N / female
Supply	230 VAC +10%, -15%, 50 Hz
Power Consumption	1200 W max.
Cooling	Forced air
Microprocessor Control System	<ul style="list-style-type: none"> - Protect against over load - Protect against RF input over-drive - Protect against over-temperature - Enable to measure forward power and reflected power from load
Dual directional coupler	<p>Amplifier contains as standard on the output dual coupler for measuring and controlling of the output power. These RF signals of the forward and reflected output power are leaded to connectors placed on the rear panel. They allow independently measuring of the forward and reflected power of the amplifier. It reduce the cost of measurment system In which is the amplifier included.</p>
Dimensions (D x W x H)	480 mm x 483 mm x 177 mm
Weight	40 kg
Interface	IEEE-488 GPIB

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