

Broadband Power Amplifier PEA-100L



PEA-100L 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 PEA-100L

GENERAL SPECIFICATION	
Frequency Range	200 kHz ÷ 500 MHz
Output Power	≥ 100 W
Output Power @ 1 dB Gain Compression @ 0.2 MHz ÷ 150 MHz @ 150 MHz ÷ 500 MHz	≥ 80 W min. ≥ 65 W min.
Small Signal Gain when the gain is set to maximum	48 dB min., 51 dB max.
Small Signal Gain Flatness	± 1.5 dB typ., ± 2 dB max.
Flatness@ ALC switch on	≤ ± 0.7 dB
Input Impedance / VSWR	50 Ω nominal / 2:1 max., ≤ 1.5:1 typ.
Output Impedance / VSWR	50 Ω nominal / < 4:1 max.
Mismatch Tolerance	5:1 max.
Connectors Input/Output	N / female
Supply	230 VAC, +10 %, -15 %, 50 Hz÷60 Hz
Power Consumption	500 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
Dimensions (H x W x D)	140 mm x 483 mm x 465 mm
Weight	18 kg
Interface	RS232

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