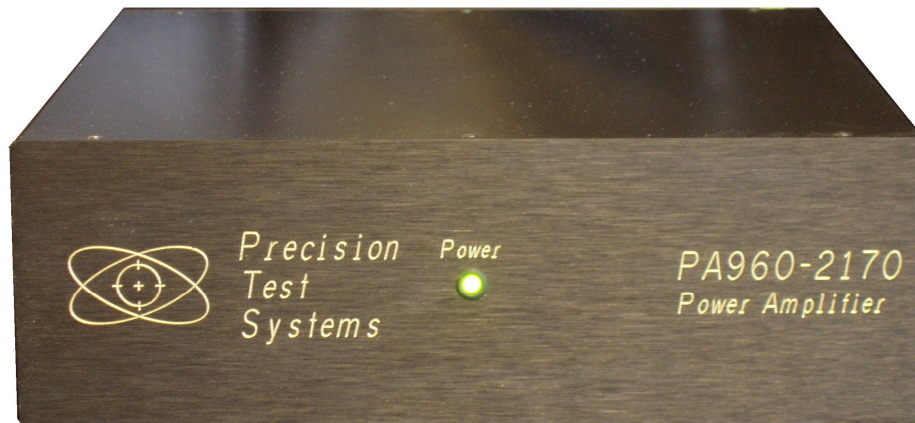




PA1000-15: 15 Watt Power Amplifier



Key Features

- Class A Power Amplifier
- Over temperature protection
- Applications include VHF/UHF transmitters, defense, Amateur radio, Laboratory use.
- 20 - 1000 MHz Frequency Range
- 15 Watts Output (1 dB compression)
- 50 dB Gain
- Short and Open Circuit Protection
- Matching Signal Generators Available

General Description

The PA1000-15 power amplifier is designed for multiple applications. The amplifier produces 15 Watts output from a -8 dBm input, thus they have a minimum gain of 50 dB. The frequency range is 20 to 1000 MHz.

They can either be used with any standard signal generator, or matching signal generators from Precision Test Systems are available.

An automatic gain control (AGC) circuit inside the power amplifiers ensures flatness is typically better than ± 1.0 dB.

The power amplifiers are protected against open circuits, short circuits or poor VSWR's.

The amplifiers are housed in an aluminum case and are powered from a 100 - 240 VAC power source or optional 24V source.

Description	Specification	Remarks
Amplifier		
Frequency Range	20 - 1000 MHz	
Input Impedance	50 Ω	
Input Return Loss	> 14 dB typical	
Output Impedance	50 Ω	
Output Return Loss	> 8 dB typical	
Gain	50 dB nominal	
Gain Flatness (AGC Enabled)	± 1.5 dB typical, 2 dB worse case	
Maximum Input	+ 0 dBm	
Output Power with -8 dBm input	+42 dBm (15 Watts)	typical
Noise Figure	< 3.5 dB typical	
Miscellaneous		
Operating Temperature	-20 °C to +40 °C	
Storage Temperature	-20 °C to +60°C	
Power Inlet with switch	IEC320 power cord	
AC Voltage Range	100 - 240 VAC (usable 90-260 VAC)	Optional 24V @ 2.7 Amps
Power consumption	80 watts max	
Fuse rating	3.15A, 250 VAC slow blow type	
Dimensions		
Width	275 mm	
Depth	330 mm	
Height	88 mm	
Weight	3 kg	
Consult Precision Test Systems for further details		

Head Office - UK	South Africa	USA
Precision Test Systems LTD 40 Holkham Avenue, South Woodham Ferrers Essex, CM3 7AU, England Tel: +44 (0) 845 052 0920 Fax: +44 (0) 1245 330030 Email: uksales@ptsyst.com Web: www.ptsyst.com	Precision Test Systems cc Randburg 2196 Gauteng South Africa Fax: 08651 58198 Email: sasales@ptsyst.com Web: www.ptsyst.com	Precision Test Systems 14781 Memorial Dr, Suite # 981 Houston Texas, 77079, USA Tel: 1 832 201 6564 Fax: 1 888 876 4804 Email: usasales@ptsyst.com Web: www.ptsyst.com

Specifications and features subject to change without notice (251011)