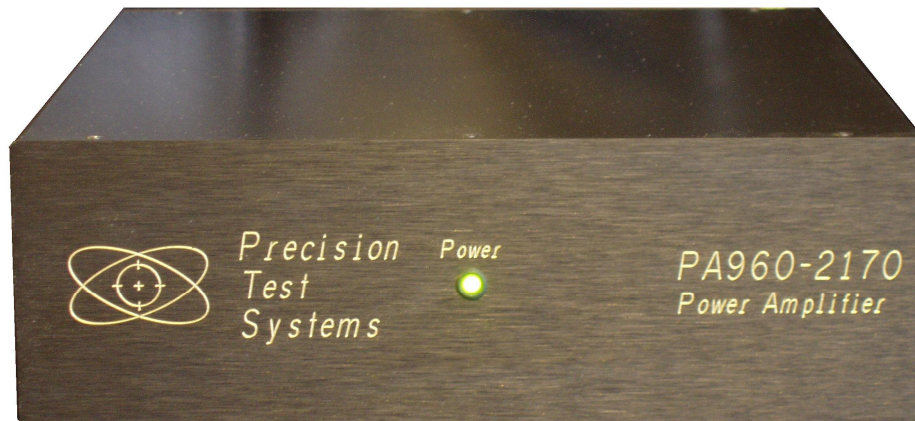




PA960-2170 20 Watt Power Amplifiers



Key Features

- Power Amplifiers designed for GSM Testing
- Two models PA960 and PA2170
- PA960 covers 890 - 960 MHz
- PA2170 covers 1710 - 2170 MHz
- 20 Watts Output
- 23 dB Gain
- AGC gives stable gain to ± 0.5 dB
- Short and Open Circuit Protection
- Matching Signal Generators Available

General Description

The PA960 and PA2170 power amplifiers are designed for UMTS and GSM testing. They produce up to 20 Watts output from a +20 dBm input, thus they have a gain of 23 dB. Two models cover 890 - 960 MHz and 1710 - 2170 MHz.

They can either be used with any standard signal generator, or matching signal generators from Precision Test Systems are available. The FSG960B covers 890 - 960 MHz and the FSG2170 covers 1710 - 2170 MHz. Both FSG models can generate an output level from -20 dBm to +20 dBm in 20 dB steps.

An automatic gain control (AGC) circuit inside the power amplifiers ensures flatness is typically better than ± 0.5 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.

Description	Specification	Remarks
Amplifier		
Frequency Range (PA960)	890 - 960 MHz	Usable 800 - 1000 MHz PA960 typically < 0.5 dB
Frequency Range (PA2170)	1710 - 2170 MHz	
Input Impedance	50 Ω	
Input Return Loss	> 15 dB typical	
Output Impedance	50 Ω	
Output Return Loss	> 12 dB typical	
Gain	23 dB nominal	
Gain Flatness (AGC Enabled)	± 1 dB, ± 0.5 dB typical	
Maximum Input	+23 dBm	
Output Power with +20 dBm input	+43 dBm (20 Watts)	
Miscellaneous		
Operating Temperature	0 °C to +40 °C	Rear Panel
Storage Temperature	-20 °C to +60°C	
Power Inlet with switch	IEC320 power cord	
AC Voltage Range	100 - 240 VAC (usable 90-260 VAC)	
Power consumption	100 watts max	
Fuse rating	3.15A, 250 VAC slow blow type	
Dimensions		
Width	275 mm	
Depth	330 mm	
Height	88 mm	
Weight	4 kg	
Consult Precision Test Systems for further details		

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Specifications and features subject to change without notice (130108)