PB170-230-25
170-230MHz – 25W
Solid State Broadband
High Power Amplifier

The PB170-230-25 is a 25W, Class A laboratory bench top amplifier for the 170-230MHz band. It offers superior performance with high gain and power in a small enclosure using advanced broadband matching techniques and the finest Gold LDMOS transistors available on the market today. Matched for 50 ohms input and output, the PB170-230-25 provides 50 watts typical P1dB. It's rugged housing and high performance make it the natural choice for broadband testing.

Specifications (@ 25°C ambient air)

Parameter	Min.	Typ.	Max.	Unit
Frequency	170		230	MHz
Pout Linear		25		Watts
Pout P1dB		50		Watts
Gain	34	36		dB
Gain Flatness		+/-1.5		dB
Power In @ Pout 25W		0		dBm
Input Return Loss			-14	dB
2nd Harmonic		-35		dBc
3rd Harmonic		-35		dBc
Ambient Operating Temperature	0		+55	°C
Dimensions	8"W x 12"L x 5"H			
Electrical Supply	88 ~ 132VAC or 176 ~ 264VAC, single Ø, 47-63Hz			
AC current typical	1.5A @ 120VAC			
Dimensions	8.0"W x 12.0"L x 5.0"H 203.3mm x 304.8mm x 127mm			
Connectors	RF In & RF Out SMA			

Features

- 25 Watts typical Class A
- 50 ohms input/output
- Bandwidth 170-230MHz
- Internal cooling
- Over Temperature Protected (1)
- Easy access fuse
- Small Size
- Low power consumption
- On/Off Switch, LED display
- 88-132VAC or 176-264VAC supply (factory set)

RF Maximum Ratings	
Parameter	**Units**
Load Mismatch	3:1
Storage Temperature	-40°C to +150°C
Ambient Operating Temperature	0°C to +55°C

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Front View

Rear View

Notes:
1. Should overheating occur, the amplifier will automatically shut down. Immediately switch the AC power off and determine if the ambient air temperature is too high or if the amplifier should be returned for repair. Failure to switch the AC power off under automatic shut down will cause the amplifier to cycle on and off with temperature.

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Revision History	03-11-11	Data Sheet

We Listen to your comments
If there is any information within this document that you feel is wrong, unclear or missing, please give us your feedback as it will help us to continuously improve The quality of this document. Please send your suggestions (including a reference To this document) to:
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Attention please:

The information herein is given to describe certain components and shall not be Considered as a guarantee of characteristics. Terms of delivery and rights to Technical change reserved.

For further information on technology, delivery terms, conditions and prices, please Contact the sales department at PMT headquarters at 1-775-883-1122

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