



PB1-525-10

1-525 MHz – 10W

Solid State Broadband High Power Amplifier

The PB1-525-10 is a 10W, Class A linear laboratory bench top amplifier for the 1 - 525 MHz band. It offers superior performance with high gain and power in a small enclosure using advanced broadband matching techniques and the finest Gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, the PB1-525-10 provides a minimum of 10 watts P1dB making it the natural choice for broadband testing.



Specifications (@ 25°C ambient air)				
Parameter	Min.	Typ.	Max.	Units
Frequency	1		525	MHz
Pout CW P1dB	+40			dBm
Power in		-5		dBm
Gain	42	45		dB
Gain flatness		±1.5		dB
Input R/L			-14	dB
IMD ₃ , 2 tone 10W PEP, Δf = 10kHz	-34	-28		dBc
2 nd Harmonic	-30	-20		dBc
3 rd Harmonic	-30	-25		dBc
Electrical supply	88 ~ 132VAC or 176 ~ 264VAC, single Ø, 47-63Hz			
AC Current (approximate)	1.5 A @ 120VAC, 0.5@ 208VAC			
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

- 10 Watts P1dB Class A
- 50 ohms input/output
- Bandwidth 1 – 525 MHz
- 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	∞ :1
Storage Temp	-40° - +105°C
Ambient Op. Temp.	0°C - +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:

03-18-11

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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To request other information please call 1-775-883-1122

Attention please:

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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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