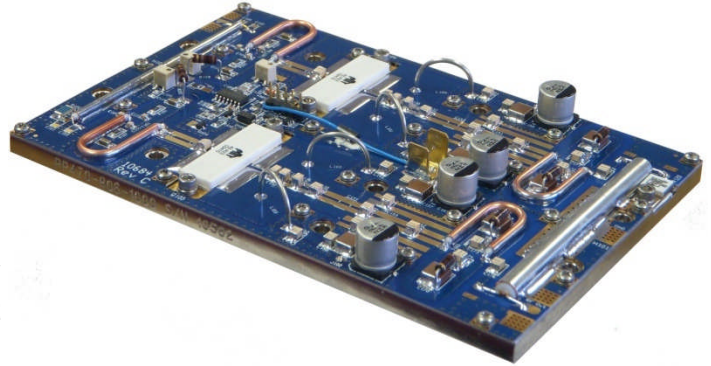




PP470-806-1000
UHF TV
250W Digital Average Power
Solid State Broadband
High Power Pallet Amplifier

The PP470-806-1000 is a high power linear Class AB pallet amplifier featuring the latest generation LDMOS transistors, covering the 470 - 806MHz UHF TV band. The PP470-806-1000 can be used as an output PA @ 250W of DVB-T average digital output power. Note: This pallet is not designed for analog service. Please refer to our PP470-860-600 for analog broadcast applications.



Operating Specifications (Pout 225W Avg., Freq. = 470-806 MHz, V Supply = +50VDC, I _{DQ} = 2.4 A, T _{Base} = 25°C)				
Parameter	Min	Typ.	Max	Units
Power Out, Digital Average Power DVB-T		225		Watts
Power Gain		18		dB
Efficiency		26		%
Input Return Loss			- 14	dB
Insertion Phase Variation (Unit to Unit)			+/- 5.0	Degrees
Gain Variation (Unit to Unit)		+/- 1.0		dB
Gain Flatness			+/-1.5	dB
Second Harmonic		-20		dBc
Third Harmonic		-25		dBc
Shoulders DVB-T		-30		dBc
Baseplate Temp.	0		+60	°C
Dimensions	4.0" x 5.35" x 1.0"			

Features

- 250 Watts Digital Average Power
- 1000 Watts Peak Digital Power
- Latest Generation LDMOS Transistors
- Channel 14-69: 470-806 MHz
- 50 ohms input/output
- Thermal Tracking Bias
- No circuit tuning or RF assembly

Maximum Ratings	
Parameter	Value
Input Voltage	+52VDC
Bias Current	4.0 Amp
Drain Current	22.0 Amp
Load Mismatch All Phase angles, 2 Seconds maximum current limited to 22A max.	3:1
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

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Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

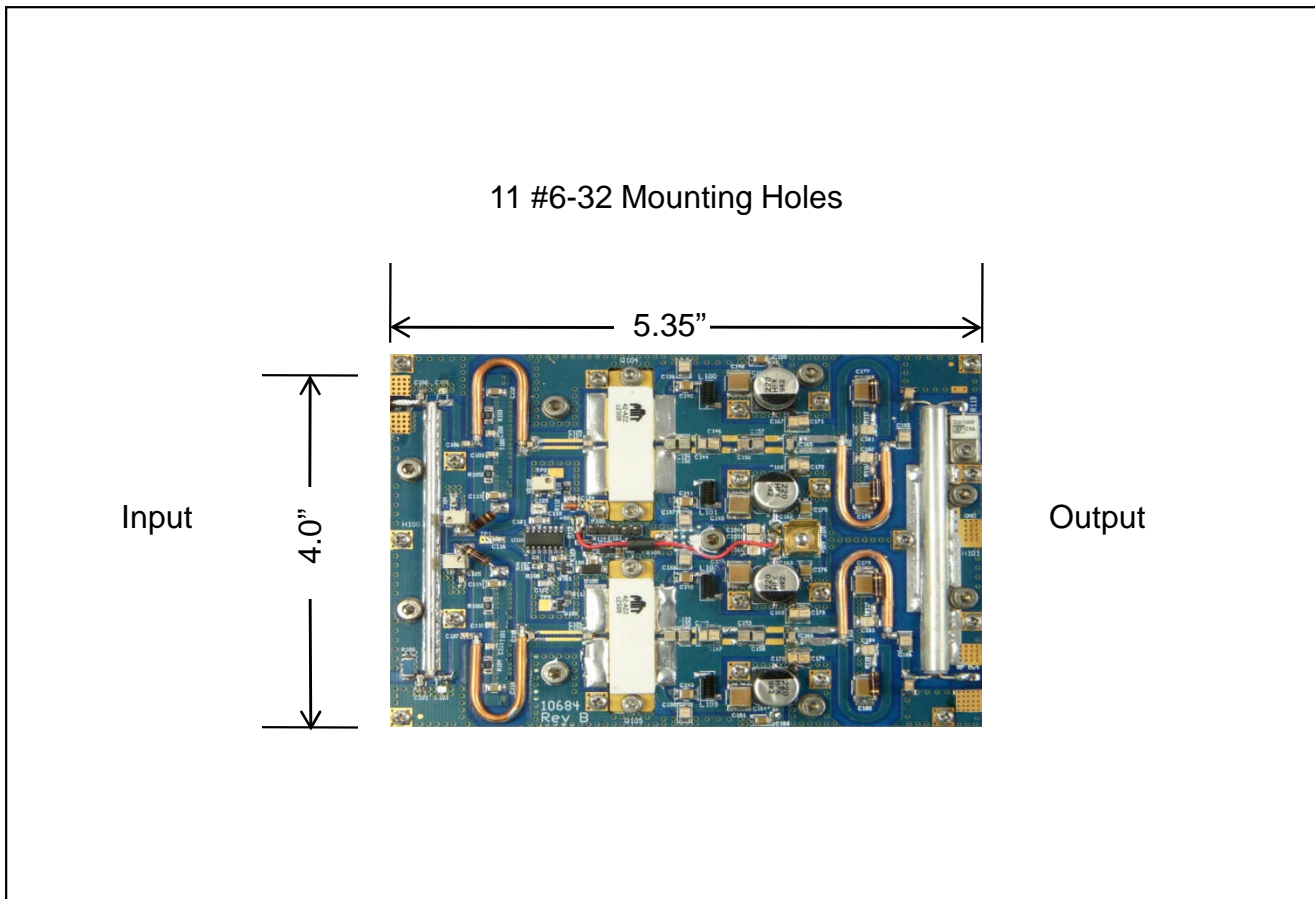
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Dimensions



Reference circuit size (not to scale)

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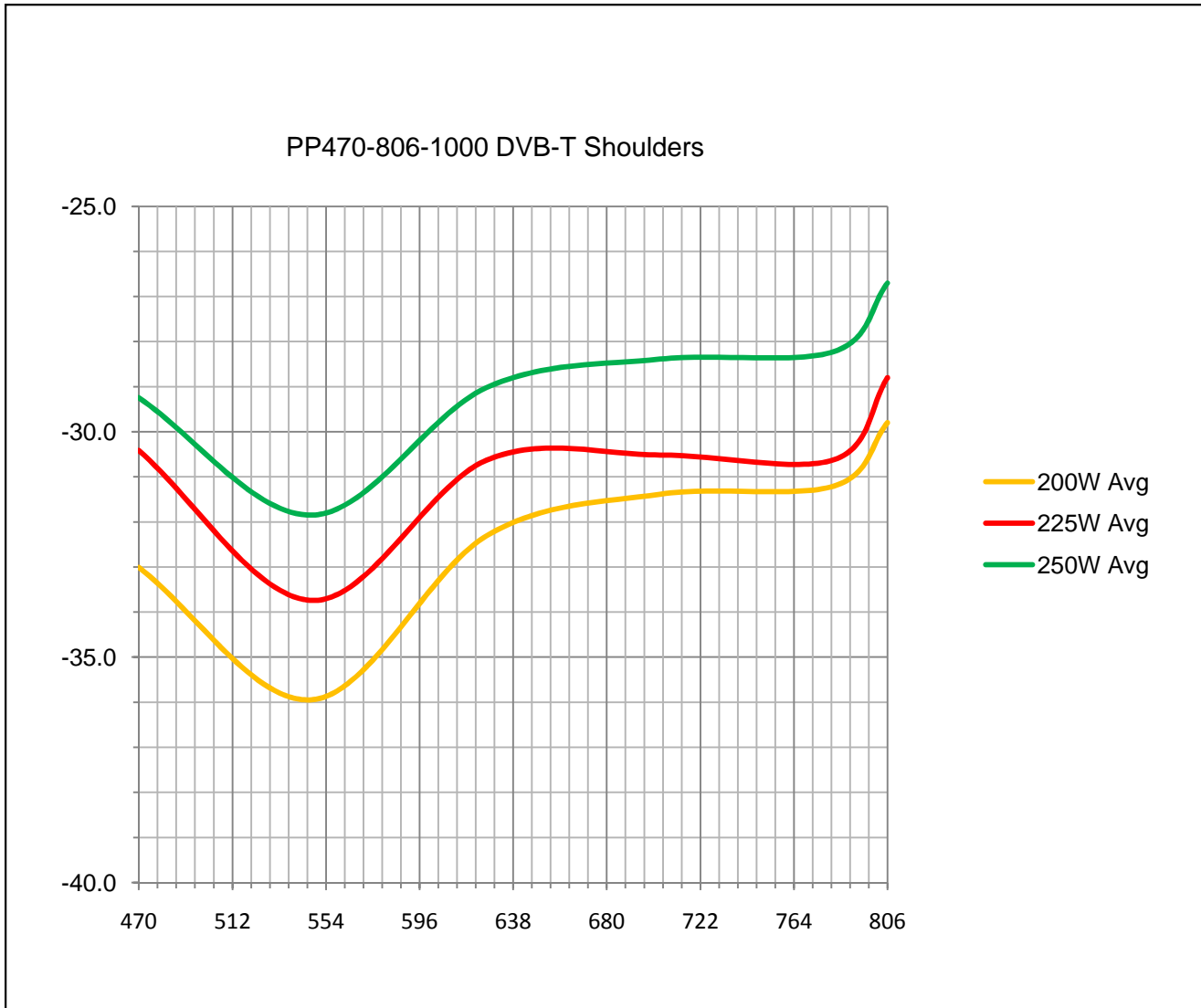
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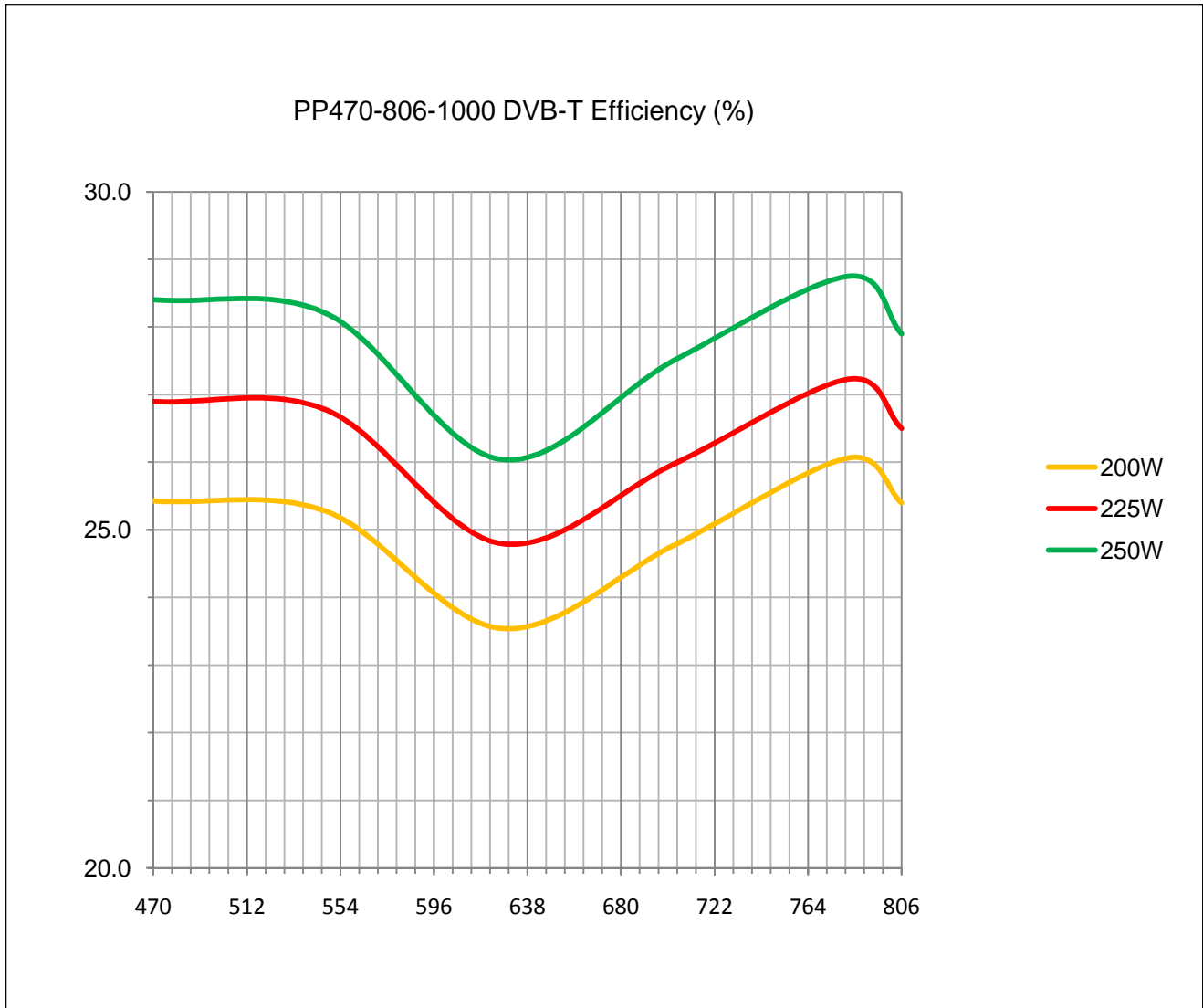
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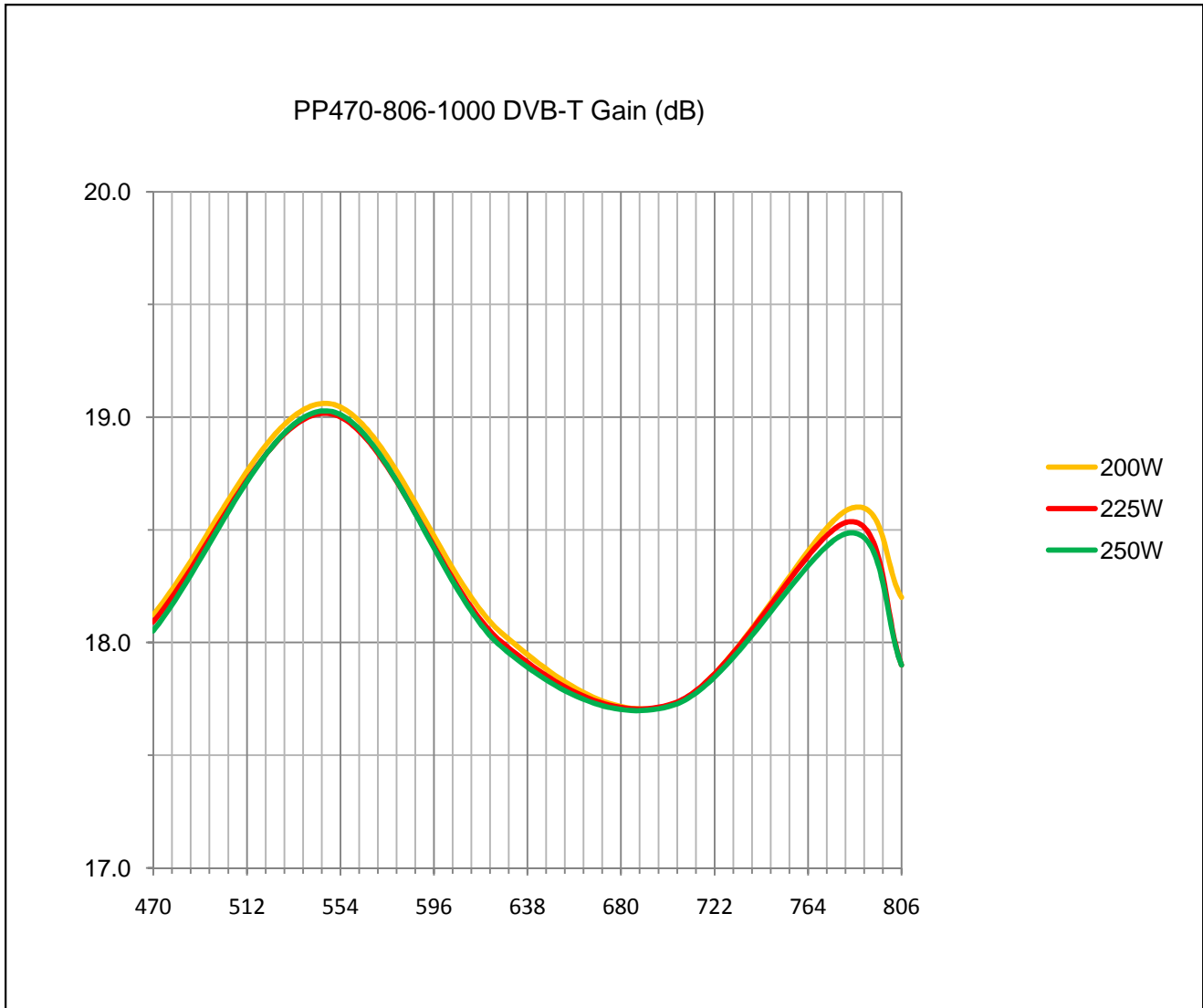
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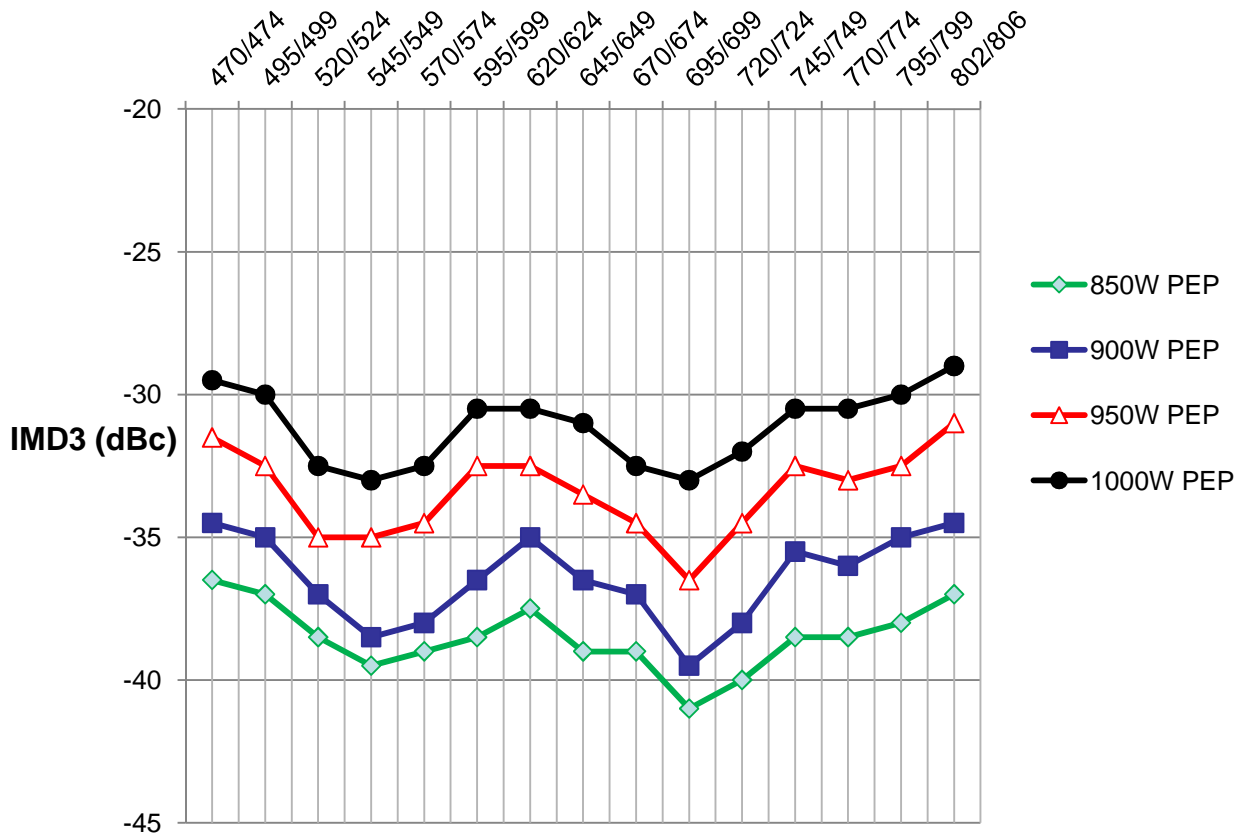
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PP470-806-1000
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250W Digital Average Power
Solid State Broadband
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PP470-806-1000 IMD3 vs PEP Output Power

Frequency (MHz)



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Revision History:

03-06-09

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:

Bob.Todd@PMTRF.com

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

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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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