



CD2032 64 MHz – 300W Solid State High Power Pallet Amplifier

The CD2032 is a 300W PEP pallet amplifier for 64MHz operation. Superior performance is provided offering high gain, efficiency and power in a small pallet footprint using advanced broadband RF matching networks, and the finest MOSFET transistors available on the market today. Matched for 50 ohms input and output, Thermal Tracking bias allows for the CD2032 to operate Class AB providing 300 watts PEP making this the natural choice for your high power application.



| Specifications (Vsupply=+50V Vdc, Idq=0.2A, TBase=25°C) | | | | |
|-------------------------------------------------------------------|--------------|-------|-------|-------|
| Parameter | Min. | Typ | Max. | Unit |
| Frequency | | 64 | | MHz |
| Pout PEP | 300 | 350 | | Watts |
| Power In | | 4.8 | 7.5 | Watts |
| Gain | 16 | 18 | | dB |
| Drain Current | | 11 | | Amps |
| Efficiency | 40 | 55 | | % |
| Input VSWR | | 1.5:1 | 1.8:1 | |
| Op. Voltage | 48 | 50 | | Volt |
| 2 nd Harmonic | | -25 | | dBc |
| 3 rd Harmonic | | -12 | | dBc |
| IMD ₃ , 2 Tone Δ F = 1.0 MHz | | -30 | -26 | dB |
| Physical Dimensions | 4.5"x3"x1.5" | | | |

Features

- 300 Watts PEP, Class AB
- 50 ohms input/output
- Thermal tracking Bias
- No circuit tuning or RF assembly

| Maximum Ratings | |
|--------------------------------------------|---------------|
| Parameter | Value |
| Input Voltage | +53 VDC |
| Bias Current | 3.0 Amp |
| Drain Current | 13.0 Amp |
| Load Mismatch | 3:1 |
| All Phase angles, current limited to 13.0A | |
| 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.

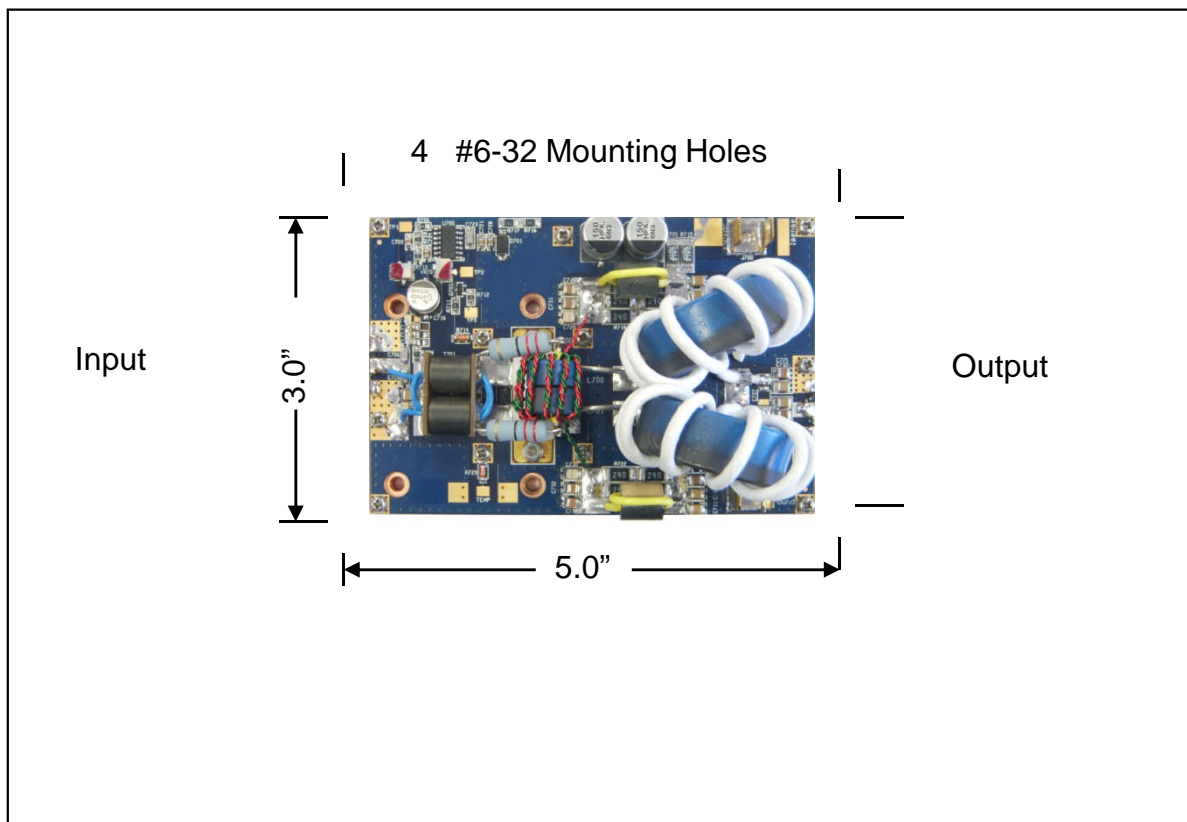
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Reference Circuit



Reference circuit size (not to scale)

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Revision History:

12/18/09

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:

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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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