

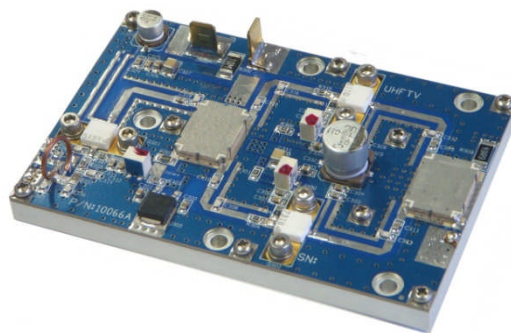


CD2009

470-860 MHz – 30W

Solid State Broadband High Power Amplifier Pallet Preliminary

The CD2009 is a 30W pallet amplifier for the 470-860 MHz band. This Class AB amplifier pallet utilizes three Gold MOSFET gain stages providing typical power gain of 25dB. A quadrature combined output provides an excellent match for the pallet when integrating into a 50 Ohm system. Superior performance providing high gain, efficiency, and power in a small pallet footprint, makes this amplifier a great choice for your UHFTV broadcast applications.



Specifications

(Vsupply=+28V Vdc, Idq=1.0A, T_{Base}=25°C, Pout=30 w)

Parameter	Min	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB	30	36		Watts
Linear Power out Pk-Sync	16	20		Watts
Gain	24	25		dB
Power In			0.12	Watts
Efficiency		28		%
Input VSWR			1.5:1	
2 nd Harmonic		-20		dBc
3 rd Harmonic		-40		dBc
Baseplate Operating Temp.	0		+60	°C
Size	2.5" x 3.8" x 0.7"			

Features

- 36 Watts typical, P1dB
- 7 Watts typ. (avg.) DVB-T
- Class A driver, Class AB Linear output stage
- 50 ohms input/output
- All Gold MOSFETs for maximum reliability
- No circuit tuning or RF assembly

Maximum Ratings

Parameter	Value
Input Voltage	+32 VDC
Bias Current	2.0 Amp
Drain Current	3.0 Amp
Load Mismatch	3:1 <small>All Phase angle, current limited to 3.0 A max.</small>
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

Power Module Technology, Inc • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

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

Specifications contained herein are subject to change without notice.

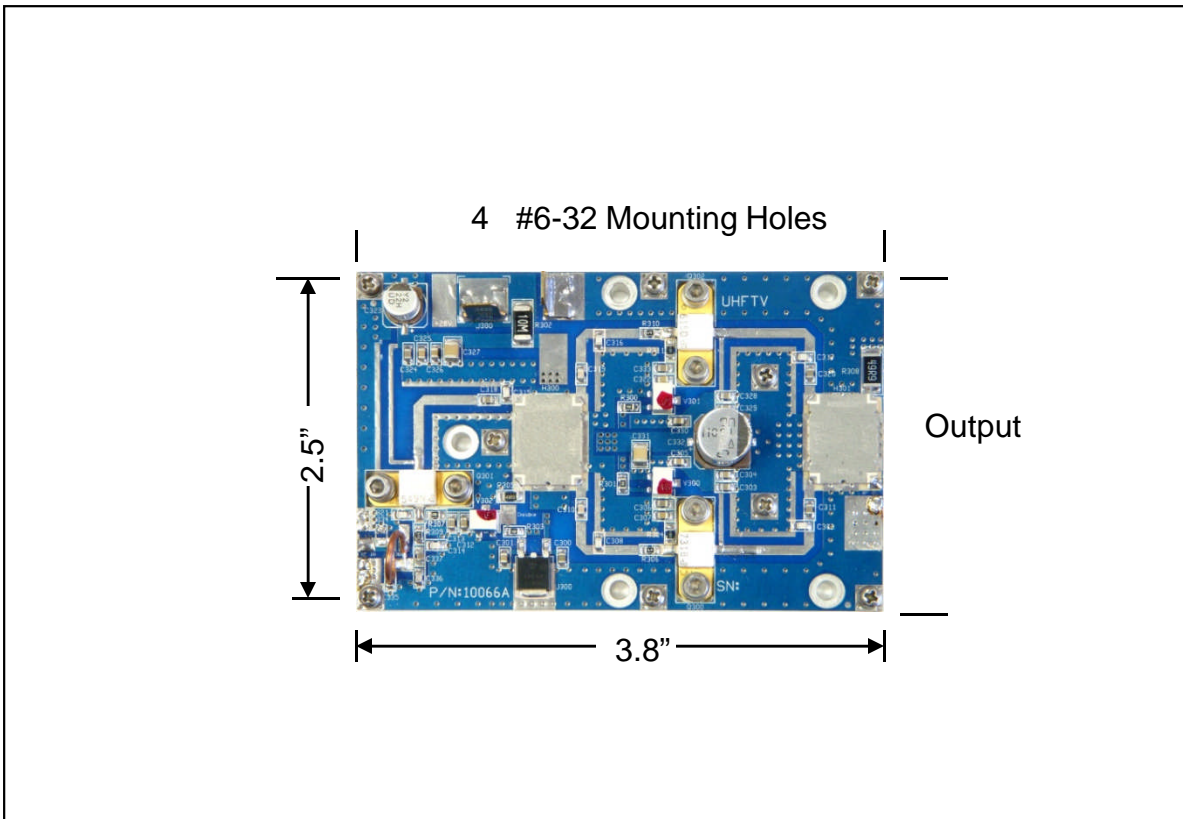
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Reference Circuit



Reference circuit size (not to scale)

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