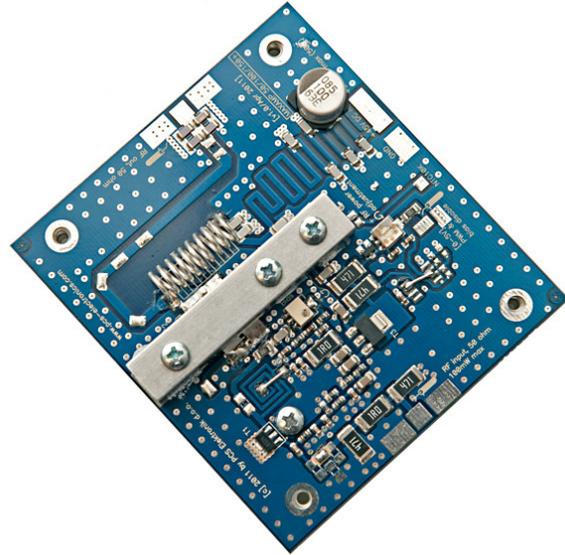


50W FM band pallet amplifier

by PCS Electronics (www.pcs-electronics.com)

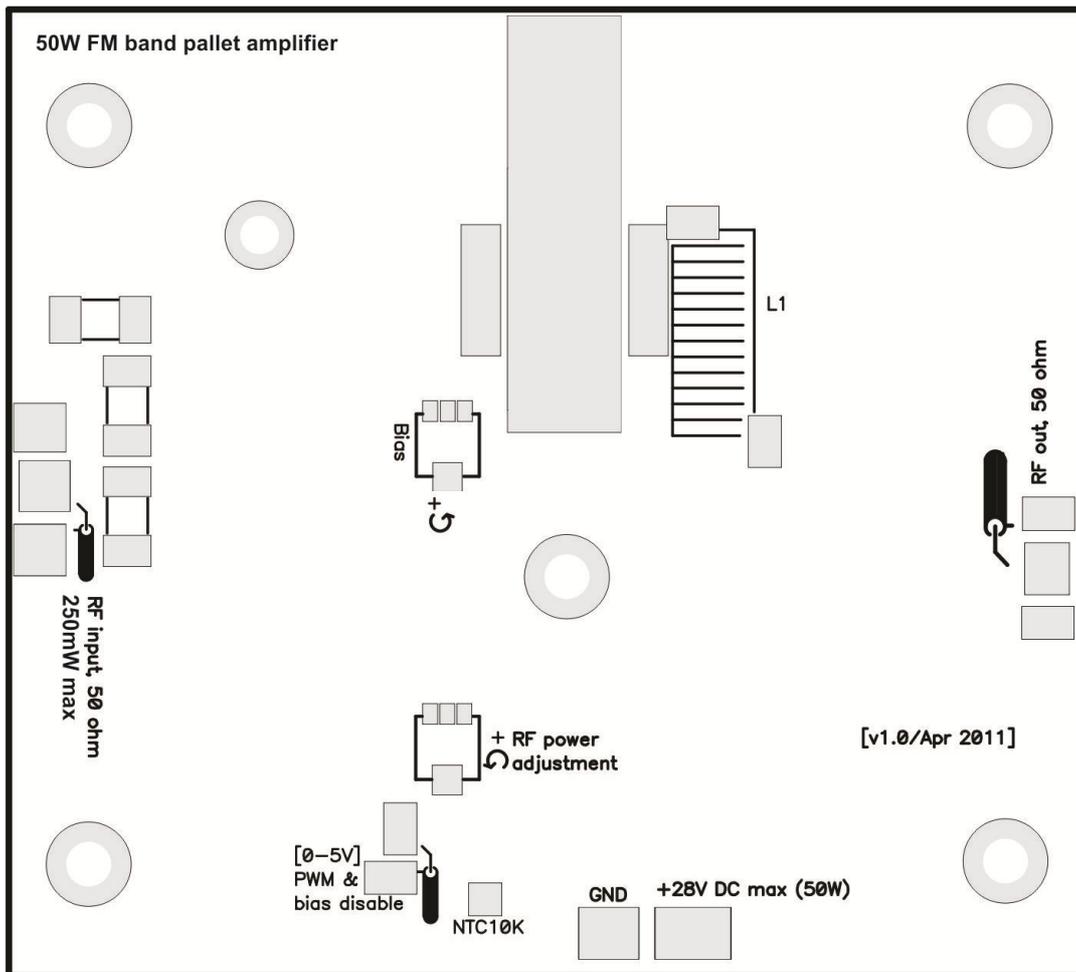
High gain FM band pallet, 50W min at 24V, needs only about 150mW for full power

- **87,5-108MHz**
- **15-28V supply voltage**
- **>22dB gain**
- **On-board 10K NTC**
- **Huge safety margin (150W Freescale LDMOS used)**
- **Dimensions:
76mm x 85mm x 30mm**
- **Made in EU**



Electrical specifications (Tc=25C, 50ohm input and output)

	Min	Typ	Max
Supply voltage:	12V	24V	28V
Output power (88MHz):		50W	
Output power (98MHz):		65W	
Output power (108MHz):		50W	
Drive power for full output:		150mW	
Current at 50W:		4.2A	



1. Requires mains power supply, heatsink, forced cooling via fan and filter for proper operation.
2. RF input and output are clearly marked on the photo above and also on the board itself. Use teflon coaxial cable only as otherwise the center and shield of the coax can form a short under thermal stress (teflon won't melt during operation or soldering). Make sure all leads are as short as possible, every mm counts! This is why we're using teflon cable here since cheap cable would melt during soldering.
3. Do not use supply voltage in excess of 28V!
4. Monitor output power at setup and don't drive the pallet beyond its specified power output, over-driving will likely result in interference, overheating and eventual destruction of the LD MOS device. Note drive power differs depending on frequency of operation and supply voltage.
5. Use thermal transfer paste for mounting to the heatsink, use screws on all available holes (M3 or similar imperial size should be used).
6. Do not attempt to fiddle with bias.
7. RF power adjustment trimmer should initially be set to full power. Once your system is setup you can use this trimmer to reduce output power. You can use the pad next to the trimmer to disable bias (pull low). Alternatively you can remove the trimmer (or set it to middle) and set power with external DC control voltage (0-5V).
8. Never operate without a matched load! Always use a filter, do not feed output directly to the antenna!