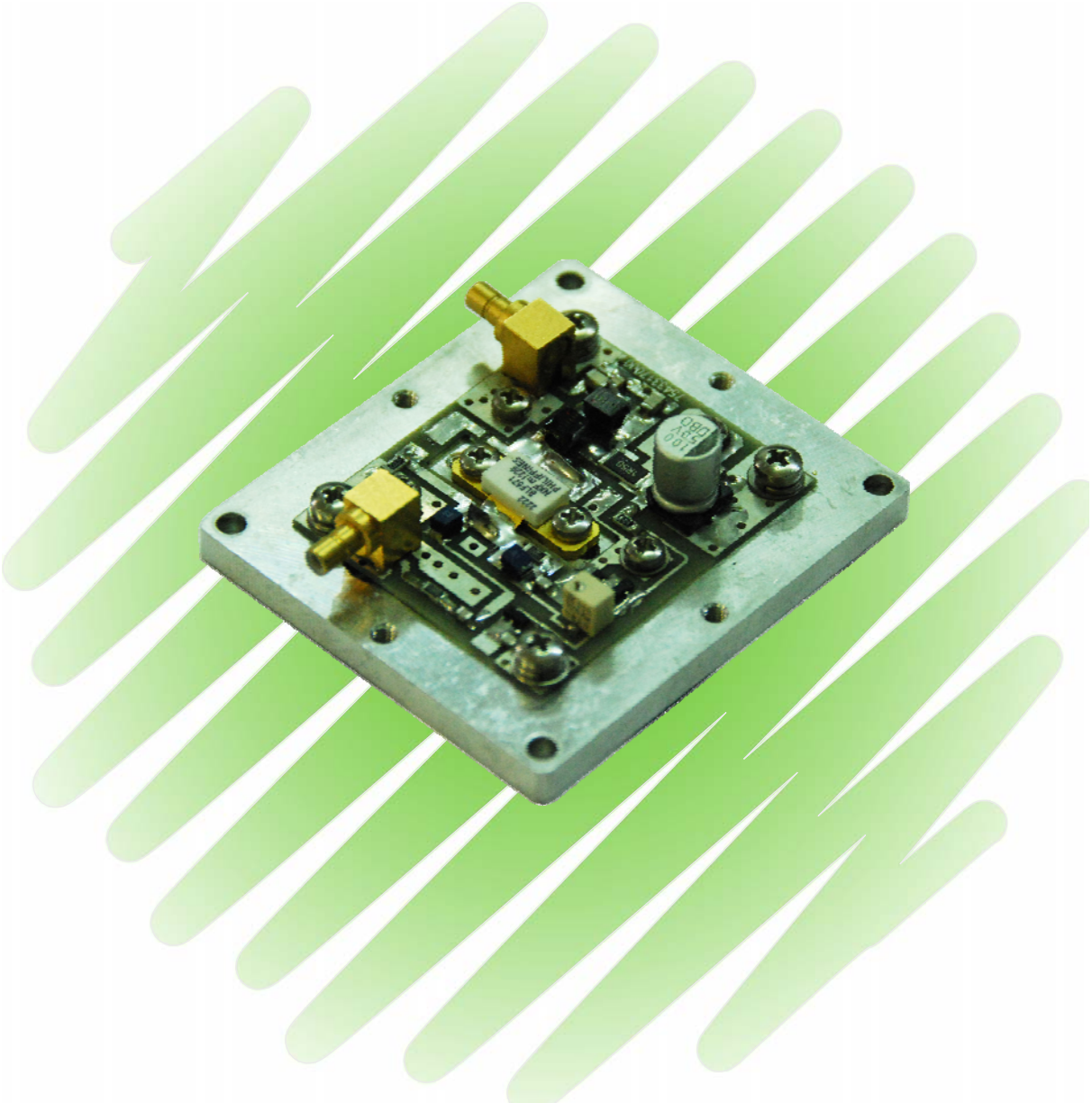


## *PLT02-250S*



*25W Band II FM  
Amplifier*

### GENERAL INFORMATION

Designed for band II FM amplification as pre driver stage and final amplifier in FM modulators, it includes only one device capable of 25W RF output. The RF module is designed in a very compact package, providing the smallest footprint possible to satisfy all typical need of a compact modulator or pre-driver application in a high power amplification chain.

### TECHNICAL SPECIFICATIONS ( $t_h = 25\text{ }^\circ\text{C}$ ; $50\ \Omega$ loaded ; $V_{dc} = +48\text{V}$ )

- Frequency range: 87 to 110 MHz
- Class operation: B saturation
- Input - output impedance:  $50\ \Omega$
- Input return loss:  $\geq 10\ \text{dB}$
- Input power: 0.2W to 0.4W max.
- Output power: 25W CW
- Harmonics:  $\leq 30\text{dB}$
- Power supply requirement: +48 Vdc  $\pm 2\%$  ; 1A max.
- Drain efficiency:  $\geq 70\%$  @ 25W CW
- Heat sink requirement:  $\leq 0.5\text{ }^\circ\text{C/W}$
- RF connection: Input SMB jack ; Output SMB jack
- Operating temperature:  $-5\text{ }^\circ\text{C}$  to  $+45\text{ }^\circ\text{C}$
- Relative humidity: 20% to 90% non-condensing
- Dimensions: 56 x 64 x 15mm
- Weight: 20 gr.

### RF MODULE LAYOUT

