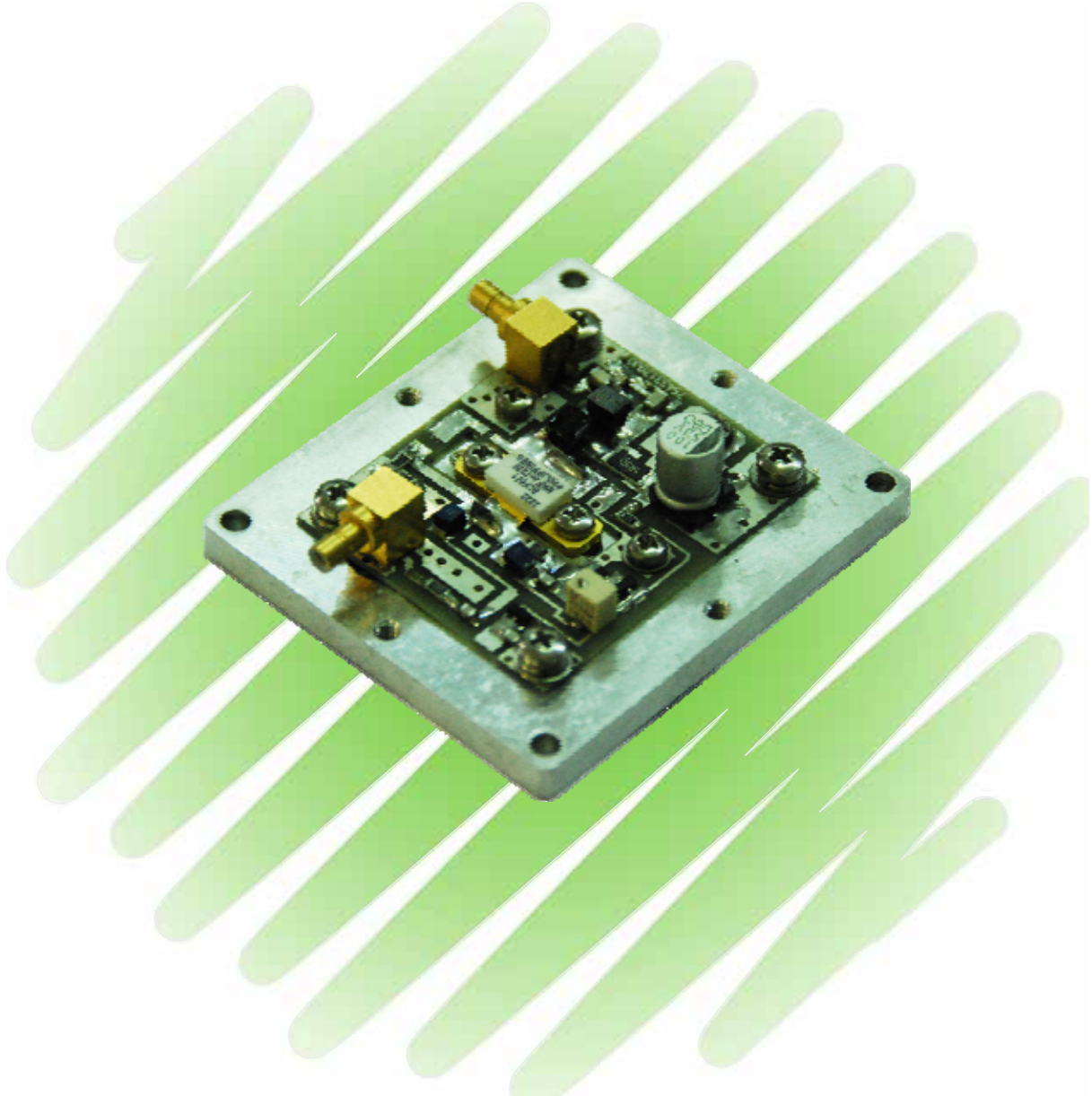


PLT01-150L



***15W Band I
Amplifier***

VHF BI AMPLIFIER

GENERAL INFORMATION

Designed for band I amplification as pre driver stage and final amplifier in BI modulators, it includes only one device capable of 15W 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 ($t_h = 25^\circ\text{C}$; $50\ \Omega$ loaded ; $V_{dc} = +48\text{V}$)

- Frequency range: 47 to 88 MHz
- Class operation: AB linear
- Input - output impedance: $50\ \Omega$
- Input return loss: $\geq 10\ \text{dB}$
- Input power: 0.05W to 0.1W max.
- Output power: 15W p.s.
- Harmonics: $\leq 30\text{dB}$
- Power supply requirement: $+48\ \text{V}_{dc} \pm 2\%$; 1A max.
- Drain efficiency: $\geq 35\ \%$ @ 15W p.s.
- Heat sink requirement: $\leq 0.5\ ^\circ\text{C/W}$
- RF connection: Input SMB jack ; Output SMB jack
- Operating temperature: -5°C to $+45^\circ\text{C}$
- Relative humidity: 20% to 90% non-condensing
- Dimensions: 56 x 64 x 15mm
- Weight: 20 gr.

RF MODULE LAYOUT

