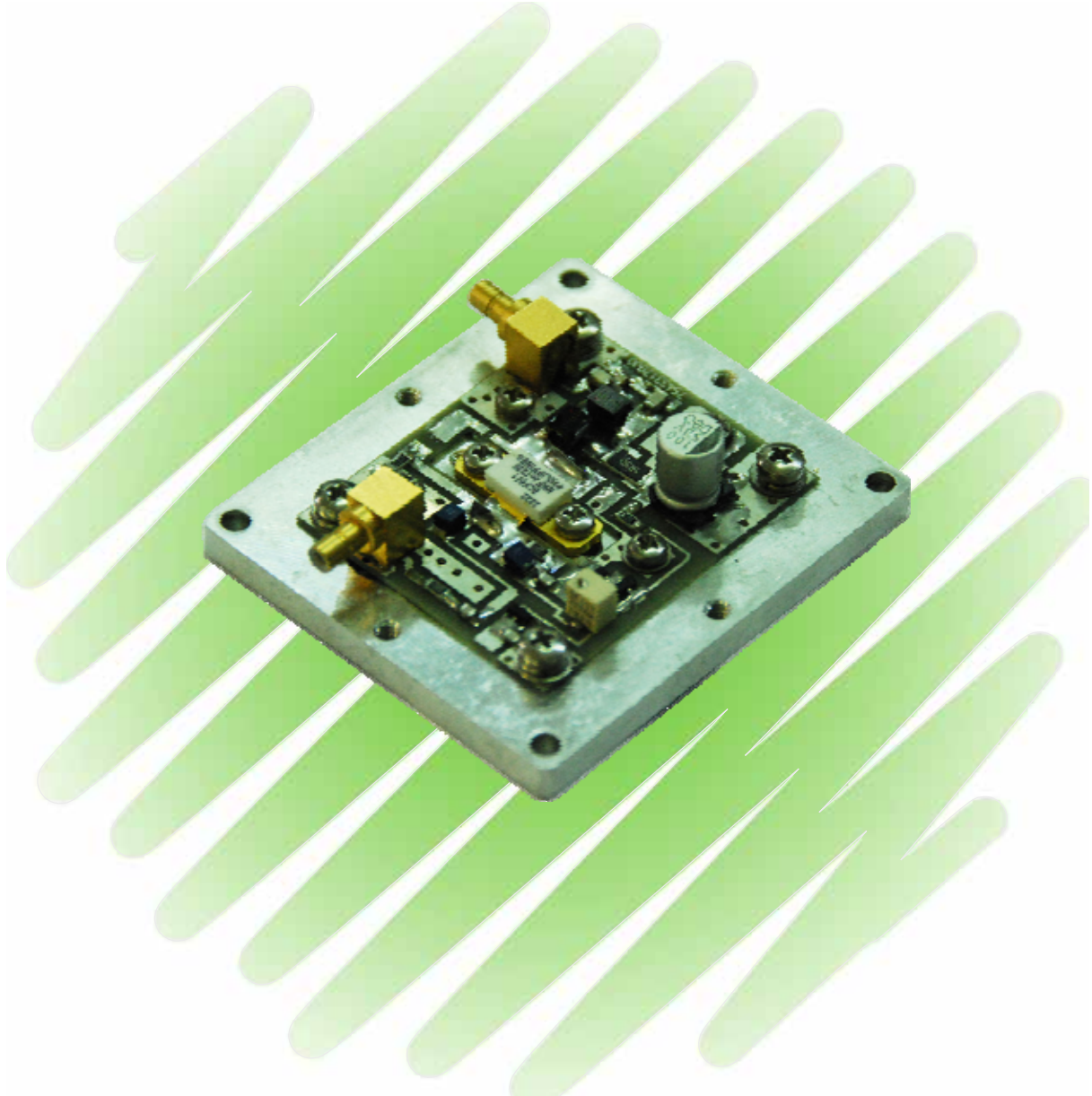


PLT03-150L



*15W Band III
Amplifier*

VHF BIII AMPLIFIER

GENERAL INFORMATION

Designed for band III amplification as pre driver stage and final amplifier in BIII 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 ($t_h = 25\text{ }^{\circ}\text{C}$; $50\text{ }\Omega$ loaded ; $V_{dc} = +48\text{V}$)

- Frequency range: 170 to 230 MHz
- Class operation: AB linear
- Input - output impedance: $50\text{ }\Omega$
- Input return loss: $\geq 10\text{ dB}$
- Input power: 0.1W to 0.2W max.
- Output power: 15W p.s.
- Harmonics: $\leq 30\text{dB}$
- Power supply requirement: $+48\text{ Vdc} \pm 2\%$; 1A max.
- Drain efficiency: $\geq 35\text{ \%}$ @ 15W p.s.
- Heat sink requirement: $\leq 0.5\text{ }^{\circ}\text{C/W}$
- 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

