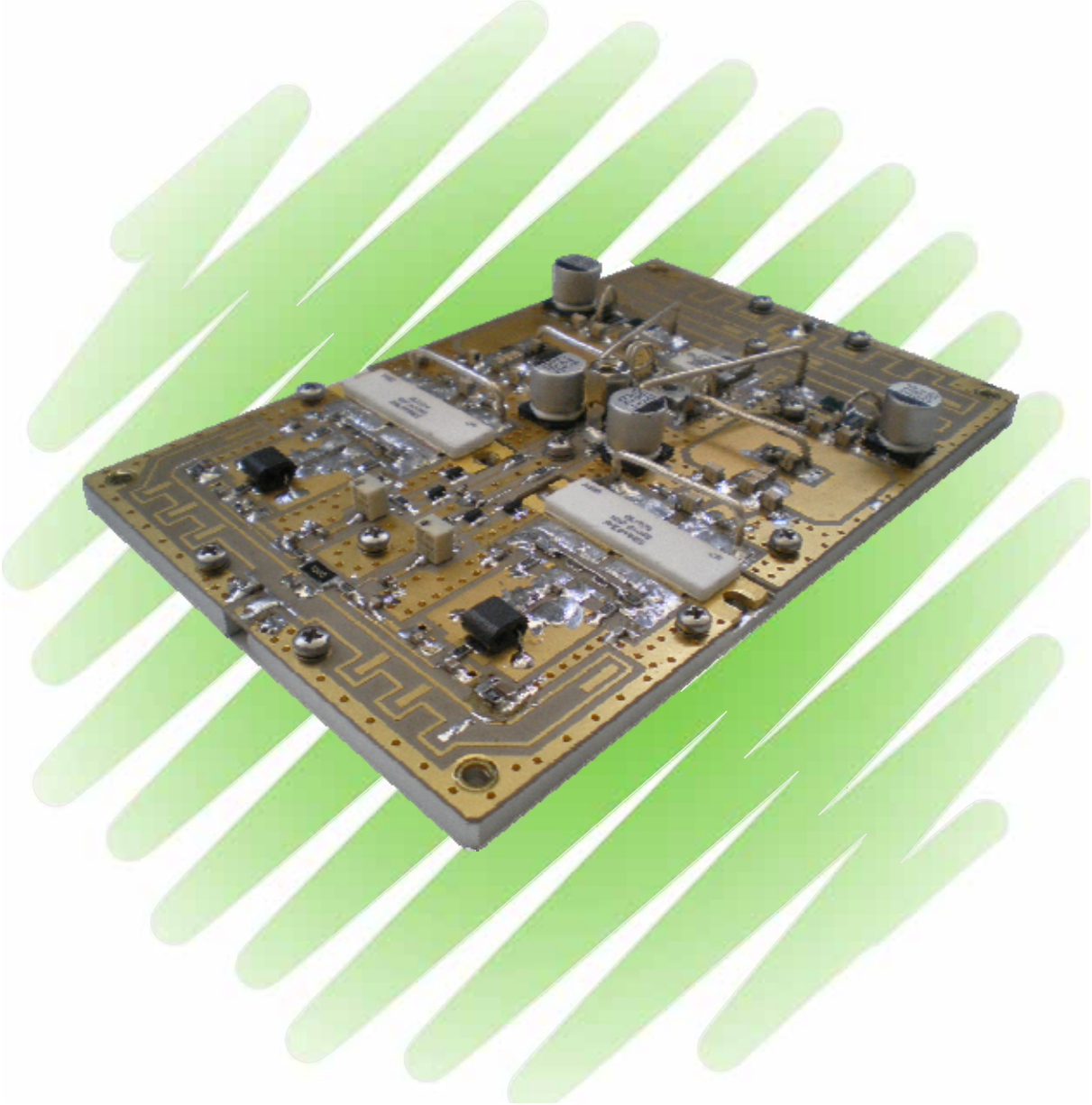
PLT03-601L



600W ATV / 200W DVBT
Band III Amplifier

VHF BIII AMPLIFIER

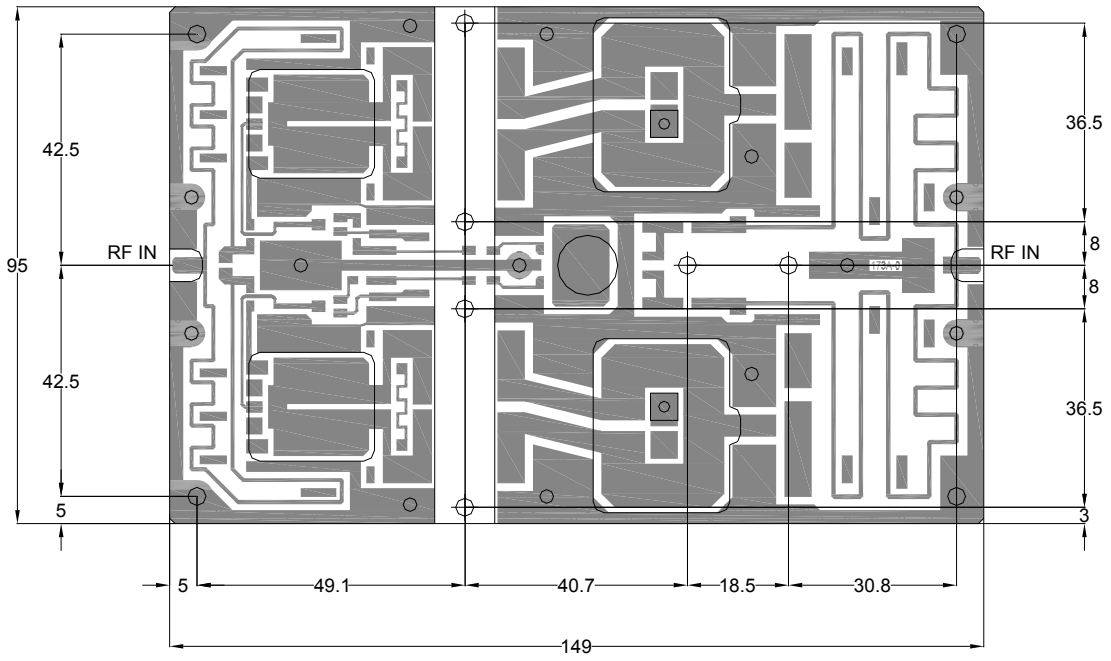
GENERAL INFORMATION

Designed for analog and digital TV transmitters and transposers this RF amplifier incorporates, simple design based on microstrip and stripline technology, PTFE PCB, planar balun and push-pull LDMOS to enhance ruggedness and reliability. Very low thermal resistance is obtained by means of a silver plated copper base-plate coupled with latest generation printed circuit board material and devices. The RF block amplifier (pallet) is easy replaceable without any soldering and alignment, it comprises circuits for stabilising the operating point and current monitoring readout

TECHNICAL SPECIFICATIONS (th = 25 °C ; 50 Ω loaded ; Vdc = +48V)

- Frequency range: 170 to 230 MHz
- Class operation: AB linear
- Input - Output impedance: 50 Ω
- Input return loss: ≥ 13 dB
- Input power: 3 Wps max. (ATV) / 1 Wrms max (DVB-T)
- Output power: 600 Wps max (ATV) / 200Wrms max (DVB-T)
- Power gain: 23.5 dB ± 0.7 @ 500W CW
- Harmonics emission ≤30dBc
- Power supply requirement: +48Vdc ±2% ; 30 A max.
- Protections: VSWR = 3:1 @ 300W CW / Overdrive 3dB cont.
- Drain efficiency: ≥ 43 % @ 300W CW
- Heat sink requirement ≤ 0.07 °C/W
- RF input / Output solder post
- Size: 95 x 149 x 20 (H) mm
- Weight: 250gr.

RF MODULE LAYOUT



VHF BIII AMPLIFIER

Intech Srl: Via B. Pontecorvo 11 (Via Tiburtina Km 18,200)
00012 Guidonia (RM) – Italy – email: info@intech-srl.com
Tel: +39.0774.379237 +39.0774.357200 ; Fax: +39.0774.375545