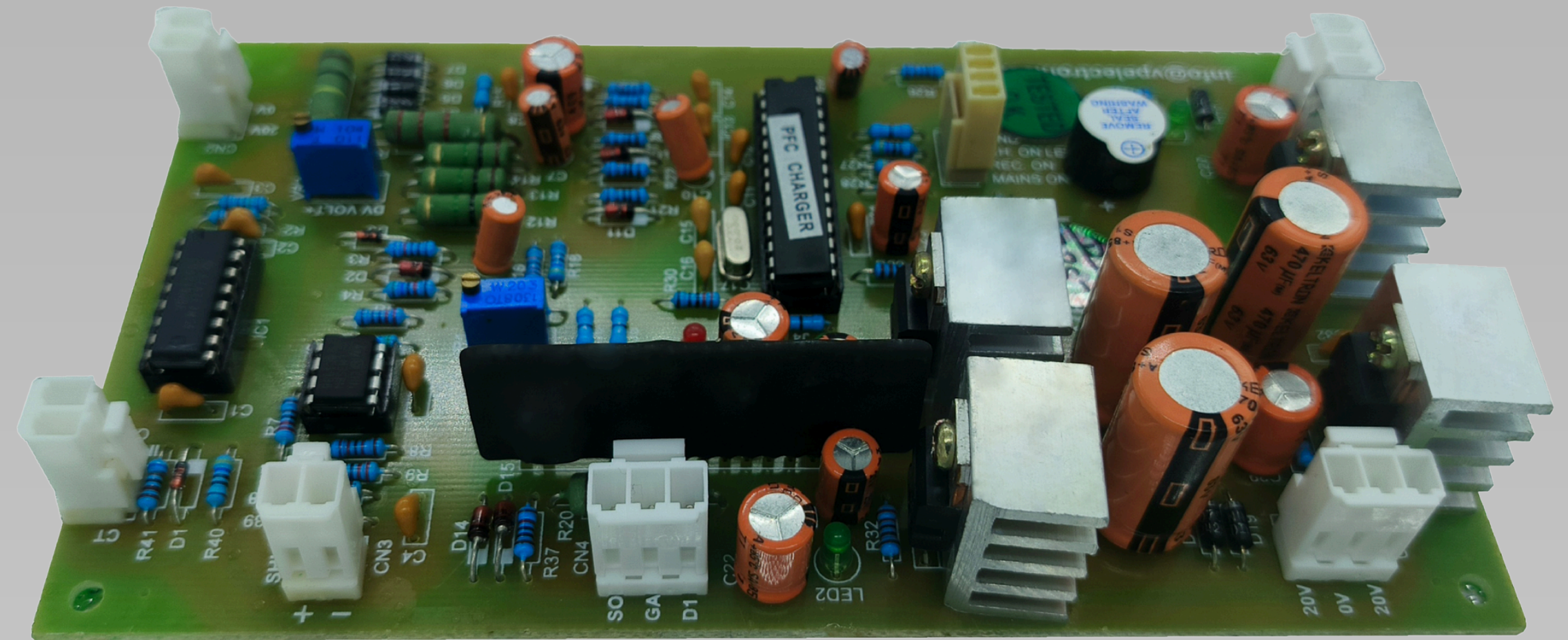
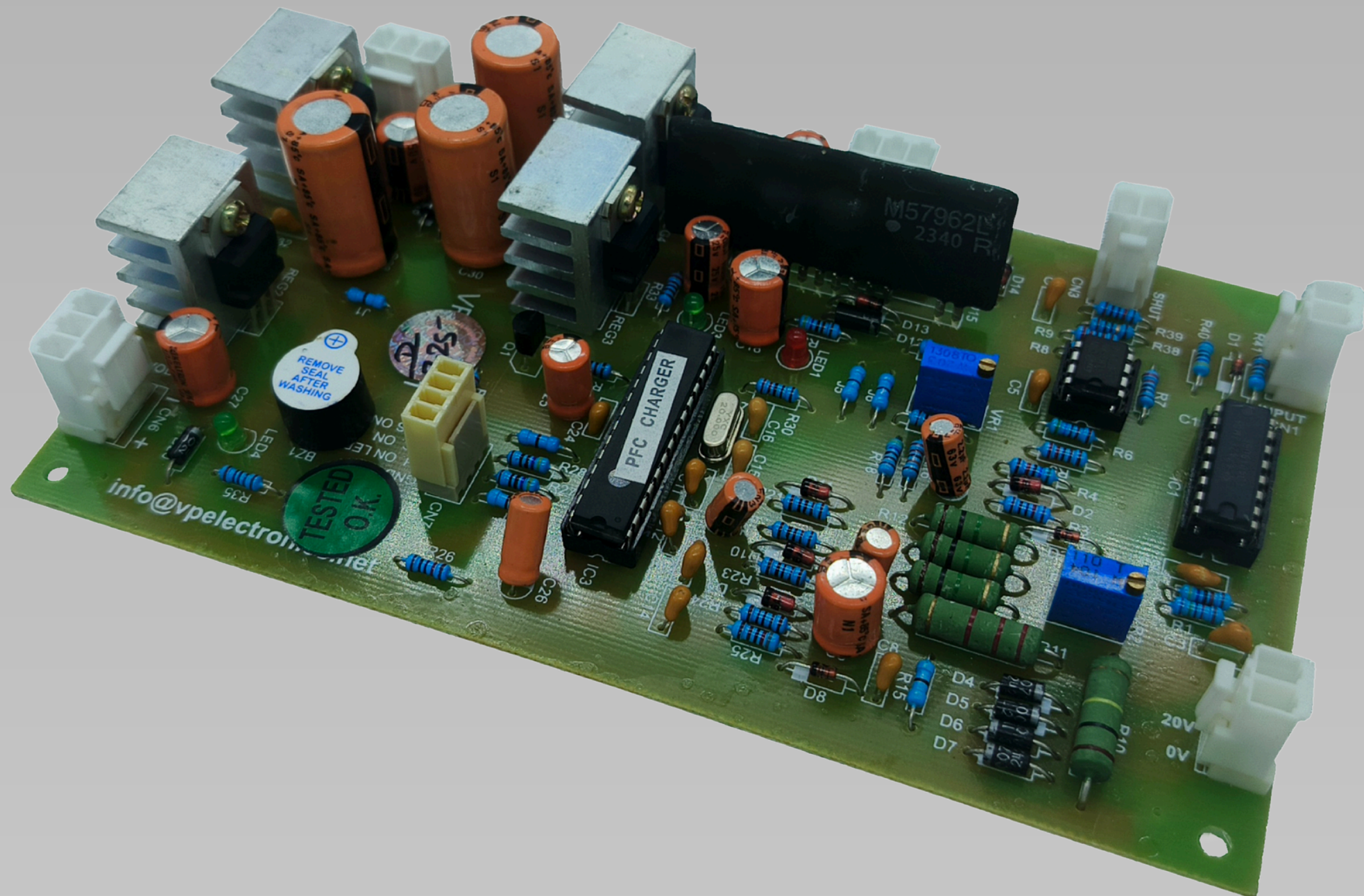




ASS CARD 1PH PFC CHARGER MICRO- CONTROLLER



FEATURES

- High frequency charger (Power factor correction)
- Analog controlling
- Harmonic filtering
- Load balancing
- Stable voltage output
- Reduce equipment stress
- Low energy leakage
- Increased capacity
- Low electricity consumption
- Charging current varies: 1A to 40A
- Usable in 1 phase / 3 phase
- DC voltage: 72V to 240V (1PH)
- DC voltage: 240V to 360V (3PH)
- Multiple phase compatibility

FEATURES

- DSP - Based Control
- Reduced Harmonic Distortion
- Wide Input Voltage Range
- High Efficiency

APPLICATION OF USES

- UPS (Uninterruptible Power Supply)
- Electric Vehicle (EV) chargers
- Solar Power System
- Medical equipment
- High frequency charging control
- Battery charger
- AC to DC power conversion
- Grid stability
- Bidirectional charging
- Boost PFC charge

APPLICATION OF USES

- Efficiency
- Performance efficient
- Cost reduction
- Reliability
- Energy wastage reduced
- Improved power grid stability
- Wider input voltage compatibility
- Better performance and longevity of equipment

RECOMMENDED POWER SUPPLY

- For regulator SMPS Aux: 20V – 0V – 20V AC
- For IC running SMPS Aux: 0V – 20V AC

MECHANICAL DIMENSION (OP. 1)

- PCB: 1mm × 93mm × 160mm (H × W × L)
- Mounting Hole: Vertical mounting
- ASS Card weight: ~0.140 Kg

SWITCHING FREQUENCY

- 9 kHz Switching Frequency

ENVIRONMENTAL

- Working temperature: -40°C to 105°C
- Storage temperature: -40°C to 90°C

BUZZER INDICATION

- Error indication buzzer from driver section reading

INTERFACING WITH AUX INPUTS CONNECTIONS

- CN1 – CT Current Transformer (Not in use)
- CN2 – 0V – 20V AC
- CN5 – 20V – 0 – 20V AC
- CN3 – SHUNT
- CN4 – Gate, Gmitter, Collector Deset
- CN6 – DC Feedback (96V to 360V)

LED Indication / Blinking Indications

- LED 4 – Green 3mm LED for 5V volt AUX driver
 - LED 2 – Green 3mm LED for 9V volt AUX driver
 - LED 3 – Green 3mm LED for +15V volt AUX driver
 - LED 1 – Red 3mm LED from Driver section faliure indication
 - CN7 – Charging ON LED Indicator Pin
- 1.+ Rectifier ON LED Indicator Pin
 - 2.+ Mains ON LED Indicator Pin
 - 3.+ Ground (GND)

Calibration

- VR1 → Current tripping
- VR2 → Voltage tripping