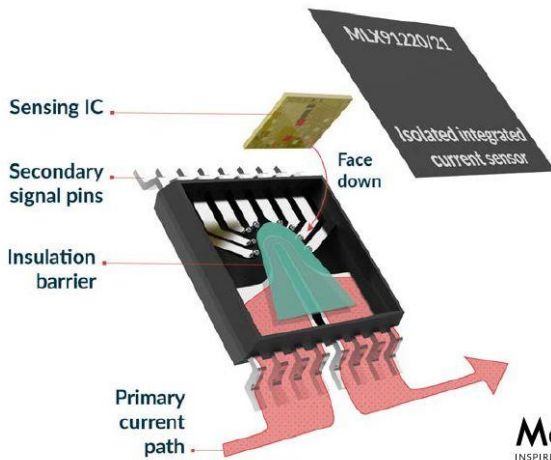


Just one chip supports current sensing without core & busbar !



Applies to a wide range of applications



KFT helps your design and development and provides evaluation tools.

■ MLX91220/21 Outline

© The MLX91220 series defines Melexis' next-generation high-speed isolated integrated current sensor. The Hall effect based current sensors are qualified for use in a wide range of automotive and industrial applications. It is de facto the easiest all-in-one integrated current sensor. Two package variants are offered, with different creepage and clearance and rated isolation voltages. With 300 kHz bandwidth, the MLX91220(5V) and MLX91221(3V) suit a variety of power conversion applications supporting current measurements lower than 50 A.

© KEY FEATURES

- Factory trimmed AC and DC current sensor
- Analog ratiometric or fixed output voltage
- Combining sensing element, signal conditioning & isolation in a miniature surface mount package
- No application programming required
- High speed sensing
 - DC to 300kHz bandwidth
 - 2 μ s response time
- Robust against external magnetic fields
- No magnetic hysteresis
- Low ohmic losses of integrated conductor
 - 0.9m Ω SOIC-8 / 0.75m Ω SOIC-16
- RoHS compliant packages
 - SOIC-8 narrow body / SOIC-16 wide
- Double overcurrent detection (SOIC-16)
- Lead free component, suitable for lead free soldering profile up to 260° C, MSL3
- Rated voltage isolation as per IEC / UL 62368-1:2014
 - 2.4 kV RMS for SOIC-8
 - 4.8 kV RMS for SOIC-16
- AEC-Q100 automotive qualified

© Application

- Automotive: On Board Charger, DCDC converter, PTC heater, E-compressor, etc
- Industrial: HVAC compressor, Solar system, White goods, Supply Equipment for EV, etc

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