

# ACPL-C799T Automotive Isolated Sigma-Delta Modulator

## Features

- ENOB: 12 bits
- $V_{REF}$  error @ 25°C max:  $\pm 1\%$
- Full input range +/-80mV, Linear input range: +/-50mV
- Input offset voltage typ: 0.3mV
- SNR typ: 75dB
- Clock frequency over temp: 9MHz min, 10MHz max
- High CMR (15 kV/ $\mu$ s at  $V_{CM} = 1000$  V)
- Compact auto-insertable Stretched SO-8 package
- 8 mm Creepage and Clearance, 0.5mm Internal Clearance
- Reinforced insulation with worldwide safety approvals:
  - IEC/DIN EN 60747-5-5:  $V_{IORM} = 1414 V_{PEAK}$
  - UL 1577: 5000  $V_{RMS}/1$  minute

## Applications

- Phase and Rail Current Sensing in Electric Motor Drive
- Inverter/Converter Current Sensing
- Battery Pack Current Monitoring

## Benefit

- Standard SMT for high volume production processes
- Solution saving space
- Enhanced measurement accuracy over Temperature

## Status Update

Preliminary Datasheet

Available

Engineering Samples

Available

Mass Production

Sep'17

