

# Murata SCA3400

## High Performance 3-axis (XYZ) Accelerometer



### Applications

- Structural Health Monitoring (SHM)
- Leveling & Platform Stabilization
- Tilt sensing
- Inertial Measurement Units (IMUs)
- Machine Control
- Positioning and guidance systems
- Construction tools and systems

### Features

- Single package 3-axis High Performance accelerometer sensor
- Based on Murata's proven 3D-MEMS technology
- Extremely stable output over wide range of temperature and vibration
- 3.0V - 3.6V supply voltage
- Two user selectable measurement modes:
  - ±2.4 g with 80 Hz LPF
  - ±1.2 g with 10 Hz LPF
- Advanced self-diagnostics features
- 12 pin pre-molded housing, suitable for SMD mounting
- Size 8.6 x 7.6 x 3.3 mm (l x w x h)
- Compatible with RoHS and EV directives

### Performance

- Ultra-low noise density 20  $\mu\text{g}/\sqrt{\text{Hz}}$
- Typical offset drift over lifetime  $\leq 0.5\text{mg}$  (X,Y)  $\leq 2\text{mg}$  (Z)
- Typical sensitivity drift over lifetime  $\pm 0.02\%$  (X,Y)  $\pm 0.2\%$  (Z)
- Temperature range -40...+85°C

