



Accelerometers

for safety-critical automotive and high-performance industrial applications

Features

- Common package for single, dual, and tri axis accelerometers
- Dual Flat Lead (DFL) plastic package for SMD mounting.
- Excellent bias stability over temperature
- Excellent noise performance
- Exceptionally insensitive to shocks and vibrations
- Automotive qualified according to AEC-Q100 standard
- Advanced self-diagnostics features
- Internal temperature sensor

Applications

- Electronic Stability Control (ESC/ESP) Antilock Braking (ABS)
- Roll Over Sensor (RoV)
- Electric Parking Brake (EPB)
- Electronically Controlled Suspension (ECS)
- Hill Start Assistance (HSA)
- Anti Roll Control (ARC)
- Anti-Vibration Control
- Industrial Navigation

Product Line-Up

| | Product | Axis | Range | 3dB point | Total Offset | Offset T-dep |
|-------------|-------------|------|-------|------------|--------------|----------------------------|
| Single Axis | SCA810-D01 | X | 2g | 30 – 80 Hz | 100mg | 70mg |
| | SCA820-D03 | Z | 2g | 30 – 80 Hz | 100mg | 70mg |
| | SCA820-D04 | Z | 2g | 30 – 80 Hz | 70mg | 30mg |
| | SCA830-D05 | Y | 2g | 30 – 80 Hz | 100mg | 70mg |
| | SCA830-D06 | Y | 2g | 30 – 80 Hz | 70mg | 30mg |
| | SCA830-D07 | Y | 1g | 6.25 Hz | 70mg | 30mg |
| Dual Axis | SCA2100-D01 | XY | 2g | 30 – 55 Hz | 70mg | 50mg |
| | SCA2100-D02 | XY | 2g | 30 – 55 Hz | 70mg | 30mg |
| | SCA2110-D03 | XZ | 2g | 30 – 55 Hz | 70mg | 50mg |
| | SCA2120-D07 | YZ | 2g | 30 – 55 Hz | 70mg | 50mg |
| Tri-axis | SCA3100-D04 | XYZ | 2g | 30 – 55 Hz | 70mg | 30mg |
| | SCA3100-D07 | XYZ | 6g | 30 – 55 Hz | 100mg | 70mg |
| | SCA3060-D01 | XYZ | 2g | 30 – 55 Hz | 200mg | Motion sense wakeup output |