



MS54XX

Miniature SMD Pressure Sensor

SPECIFICATIONS

- 1, 7, 12, and 70 bar absolute pressure range
- Uncompensated
- Piezoresistive silicon micromachined sensor
- Miniature surface mount
- Ceramic carrier
- Low noise, high sensitivity, high linearity

The MS54XX SMD pressure sensor series is designed for pressure sensor systems with highest demands on resolution and accuracy. The device consists of a silicon micromachined pressure sensor die mounted on a 6.2 x 6.4 mm ceramic carrier. The MS54XX can be delivered in a high sensitivity version giving a maximal output voltage or in a high linearity version. Both versions provide an output voltage directly proportional to the applied pressure

| Carrier | Full scale pressure | High Sensitivity Versions | | | High Linearity Versions | | |
|---------|---------------------|---------------------------|-----------------|------------|-------------------------|-----------------|------------|
| | | Product code | Full scale span | Linearity | Product code | Full scale span | Linearity |
| Ceramic | 1 bar | MS5401-AM | 240 mV | ±0.20 % FS | MS5401-BM | 150 mV | ±0.05 % FS |
| | 7 bar | MS5407-AM | 392 mV | ±0.20 % FS | | | |
| | 12 bar | | | | MS5412-BM | 150 mV | ±0.05 % FS |
| | 70 bar | MS5470-AM | 310 mV | ±0.25 % FS | | | |

FEATURES

- Low cost SMD package
- Small size
- High reliability, low drift
- -40 °C to +125 °C operation range
- Gel protection against humidity and water

APPLICATIONS

- Brake systems
- High resolution altimeters, variometers
- Barometers
- Engine management
- Waterproof watches and diving computers