

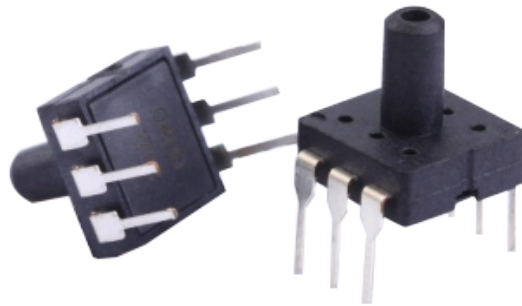
CONSUMER ELECTRONICS PRESSURE SENSOR

消费电子压力传感器

产品功能 | PRODUCT FEATURES

本产品用先进的微机电原理制作，核心技术为基于压阻效应的MEMS压力传感器芯片和高性能的信号调理AISC芯片，品质优良，封装精密，运用了成熟可靠的标定、补偿和保护技术，响应速度快、可靠性高、稳定性好，是一款高性价比的传感器产品，针对于咖啡机进气测量有很好的测量作用。

This product is made with advanced micro-electromechanical principle. The core technology is MEMS pressure sensor chip based on piezoresistive effect and high-performance signal conditioning AISC chip. It has excellent quality and precision package. It uses mature and reliable calibration, compensation and protection technology to respond. Fast, reliable, and stable, it is a cost-effective sensor product that has a good measurement function for Coffee machine intake measurement.



工作参数 | WORKING PARAMETERS

- ◇ 工作压力：-100~7kPaG...200kPaG
- ◇ 精度：±1.5%F.S (线性迟滞性, 重复性)
- ◇ 全误差带：±3%F.S. (-30°C-+100°C)
- ◇ 运行温度：-30°C-+100°C
- ◇ 存储温度：-30°C-+120°C
- ◇ 保护压力：2倍以上工作压力
- ◇ 爆破压力：3倍以上工作压力
- ◇ 工作介质：空气
- ◇ 使用寿命：500万次以上
- ◇ 防护等级：IP66
- ◇ 供电电压：≤10Vdc
- ◇ 输出电压：0.5-4.5V (范围可调)
- ◇ 供电电流：<3mA
- ◇ 响应时间：<10ms
- ◇ 安装方向：偏离任何方向90°，零变化≤0.05%FS
- ◇ 电击：10gRMS，(20~2000)Hz条件下无变化
- ◇ 影响：100克，11毫秒
- ◇ 中等兼容性：
压力方面：空气或气体与硅胶，硅胶，环氧胶或PPS兼容
参考方面：与PPS，硅和硅树脂兼容的干燥空气和非腐蚀性气体胶水或环氧树脂，金，铝和银。
- ◇ 短路保护：有
- ◇ Working pressure: -100~7kPaG...200kPaG
- ◇ Accuracy: ±1.5% F.S (linearity, hysteresis, repeatability)
- ◇ Full error band: ±3% F.S. (-30°C-+100°C)
- ◇ Operating temperature: -30°C-+100°C
- ◇ Storage temperature: -30°C-+120°C
- ◇ Protection pressure: over double working pressure
- ◇ Burst pressure: over triple working pressure
- ◇ Working medium: air
- ◇ Service life: more than 5 million times
- ◇ Protection level: Ip66
- ◇ Power supply voltage: ≤10Vdc
- ◇ Output voltage: 0.5-4.5V (range adjustable)
- ◇ Supply current: <3mA
- ◇ Response time: <10ms
- ◇ Orientation: Deviate 90° from any direction, zero change ≤ 0.05%FS
- ◇ Shock: No change at 10gRMS, (20~2000)Hz condition
- ◇ Impact: 100g,11ms
- ◇ Medium Compatibility:
Pressure side: air or gas compatible with silicone, silicone glue, epoxy glue or PPS
Reference side: dry air and non-corrosive gas compatible with PPS, silicon and silicone glue or epoxy, gold, aluminum and silver.
- ◇ Short circuit protection: Yes