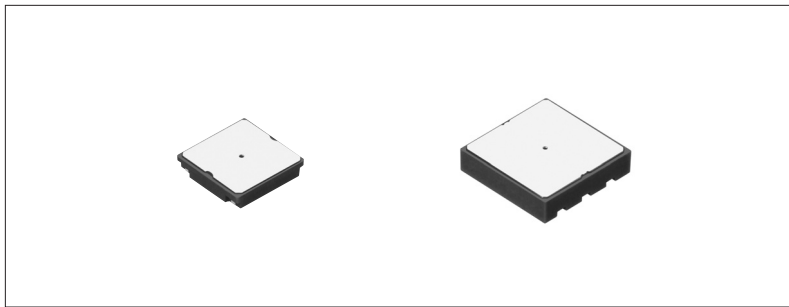


Piezo Sensor MEMS Pressure Sensor

HSP□ Series

SENSORING™

Small size pressure sensor with growing applications.



Magnetic
Sensor

Piezo
Sensor

Resistive
Sensor

Features

- Piezo resistance type pressure sensor.
- Small and low profile(□2.5mm × t0.7mm).
- Features a lineup consisting of a single element, compact type and a built-in amplifier high-output type.

Applications

- For pressure and altitude detection of portable navigation devices, mobile phones, pedometers, etc.

Typical Specifications

Items	Specifications	
	HSPPAR	HSPPAA
Function	Small and low profile	with amplifier
Size	2.5×2.5×0.7mm	3.5×3.5×1.0mm
Pressure type	Absolute pressure	
Operating pressure(kPa)	50 to 110	
Operating temperature(°C)	-20 to +85	
Supply current(mA) · Voltage(V)	I _{cc} = 0.55mA	V _{dd} = 2.5 ± 0.125V
Span voltage(mV)	44	870
Output voltage/110kPa(mV)	79	1600
Output voltage/101.3kPa(mV)	(72.6)	(1474)
Temperature characteristics of offset voltage(%FS)	-4 to +6	
Temperature characteristics of span voltage(%FS)	-4 to +4	
Bridge resistance(kΩ)	5 to 7	—
Output impedance(kΩ)	—	7 to 13

Dimensions

Unit:mm

Style	
<p>Compact type HSPPAR</p>	<p>Type with amplifier HSPPAA</p>