

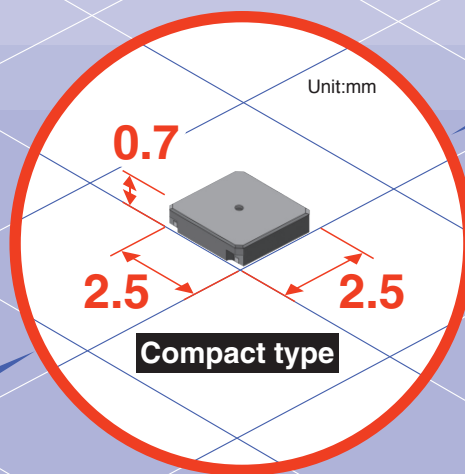
Piezoresistive Type MEMS Pressure Sensor (to Detect Absolute Pressure)



HSPP□ Series

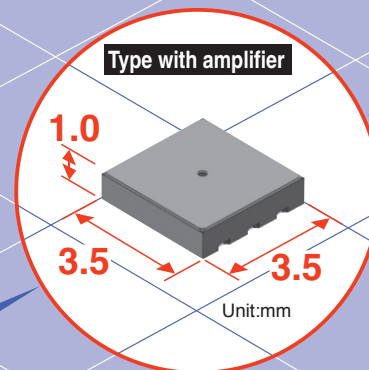
Compact 2.5 square mm size expands application of high-precision pressure detection.

Compact Low-profile



Less characteristic variability

Surface mountable

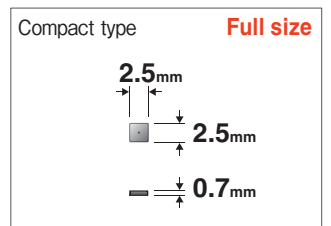
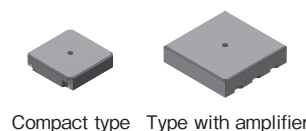


High output

※MEMS : Micro Electro Mechanical Systems

Compact and low-profile by combining thin-film processing, precision processing and packaging technologies. Space-saving device contributes to improving design flexibility.

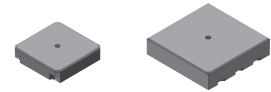
- Compact type realized compact and low-profile size of 2.5×2.5×0.7mm (W×D×H) in the world's smallest class.
- Line-up of compact type with single element and high output type with amplifier.



Piezoresistive Type MEMS Pressure Sensor (to Detect Absolute Pressure)



SENSORING™



Compact type Type with amplifier

HSPP□ Series

Compact and low-profile by combining thin-film processing, precision processing and packaging technologies. Space-saving device contributes to improving design flexibility.

Applications

High-precision pressure detection for mobile phones, portable navigation systems, pedometers, other mobile devices, etc.

Typical Specifications

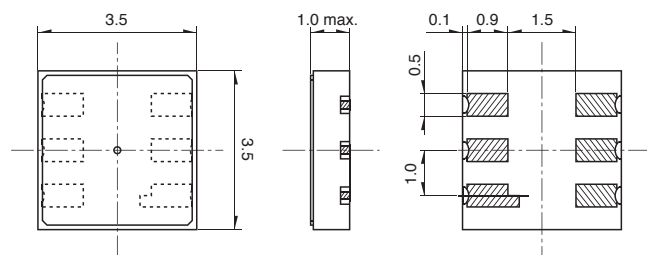
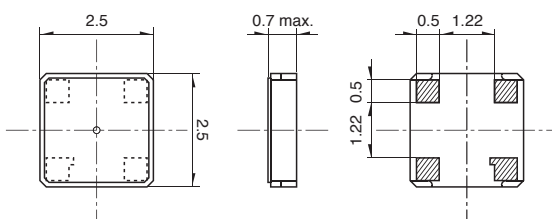
Items	Specifications	
Product number	HSPPAR	HSPPAA
Type	Compact type	Type with amplifier
Dimensions (W×D×H)	2.5×2.5×0.7mm	3.5×3.5×1.0mm
Measurable pressure range	50 to 110kPa	
Operating temperature range	-20 to +85°C	
Operating voltage	Constant current drive 0.55mA	Constant voltage drive 2.5±0.125V
Span voltage	44mV	870mV
Output voltage (at 110kPa)	79mV	1600mV
Output voltage (at 101.3kPa)	(72.6mV)	(1474mV)
Offset temperature features	-4 to 6%FS	
Sensitivity temperature features	-4 to 4%FS	
Bridge resistance	5 to 7kΩ	—————
Output impedance	—————	7 to 13kΩ

Dimensions

Compact type HSPPAR

Type with amplifier HSPPAA

Unit:mm



※The information in this catalog is based on our research as of August 2008.

※MEMS : Micro Electro Mechanical Systems

Cautions for Use

1. The specifications herein are an overview of the specifications. Obtain official specifications before use.
2. Unless specifically indicated otherwise, products herein have been designed and manufactured for use in ordinary electronic equipment, such as AV equipment, electric home appliances, office machines and communication equipment. In case of using the products for highly sensitive applications such as medical, aviation, aerospace and security, the set makers shall require to include measures necessary to meet product safety requirements of such specific applications. Such measure may include additional protection circuits and redundant circuits, for example.
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