

Pressure Sensor ICs

## Analog Force Sensor



## AS5200

### ● General Description

The AS5200 is an analog force sensor especially designed for consumer applications like touch panels, seamless buttons, and smart shoes. It is housed in a compact 2.5×2.1×1.0 mm<sup>3</sup> package. The force sensor is based on the industry-recognized piezo-resistive technology featuring long-term stability and EMC robustness. The force sensor is capable of continuously measuring forces from 0N up to 10N.

Focusing on micro force measurement, the high sensitivity, and the high resolution makes AS5200 especially suitable for applications that detect forces from hand related movement such as finger taps or pen drawing.

The device is a RoHS and Green compliant 4-pin LFBGA (2.5mm x 2.1mm x 1.05mm) outline dimension package.

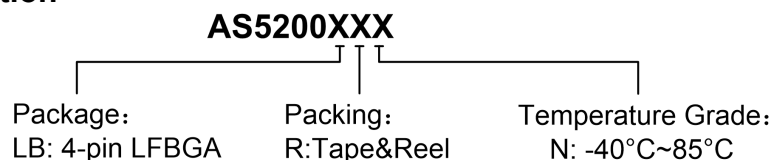
### ● Features

- Operation Range:
  - ✓ Force: 0 ~ 10N
  - ✓ Force Resolution: up to 1mN
- Supply Voltage Range:
  - ✓ VDD: +1.0V to +5.0V
- Small Solution Size
- RoHS and Green Compliant
- Space Saving 4-pin LFBGA (2.5mm x 2.1mm) Packages
- Height: 0.8mm; 1.05mm at force point
- -40°C to +85 °C Temperature Range

### ● Applications

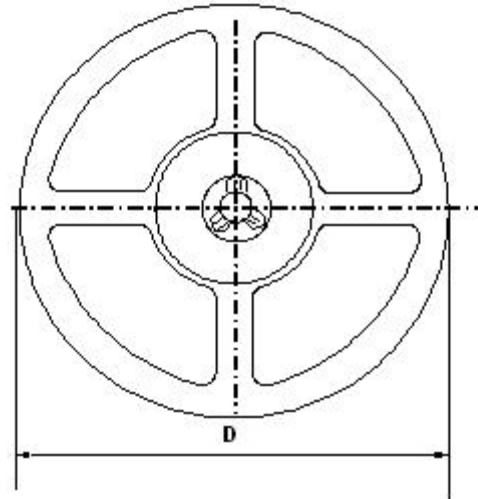
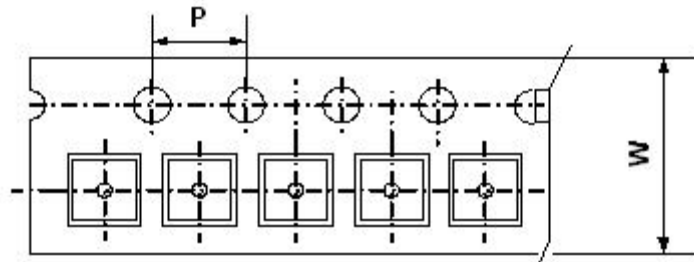
- Force Buttons
- Paiting Stylus/Gaming
- Robotic end-effectors
- Insoles of Smart Shoes

### ● Ordering Information

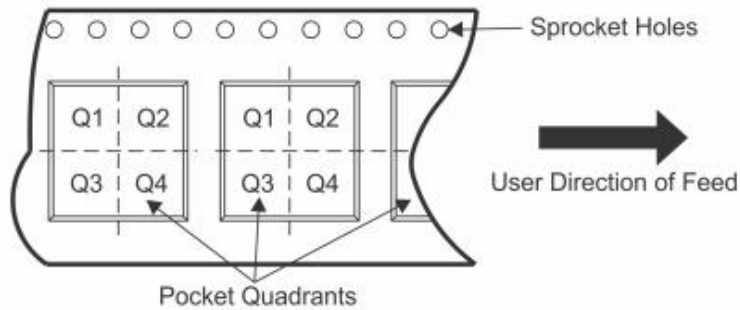


Part Number	Capability	Package Type	Package Qty	Temperature	Eco Plan
AS5200LBRN	260 ~ 1250hPa	4-pin LFBGA	7-in reel 3000pcs/reel	-40~85°C	Green

■ Packing Information



QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



Device	Package Type	SPQ	Carrier Width (W)	Pitch(P)	Reel Size(D)	Pin1 Quadrant
AS5200LBRN	4-pin LFBGA	3000pcs	8.0±0.1 mm	4.0±0.1 mm	180±1 mm	Q1