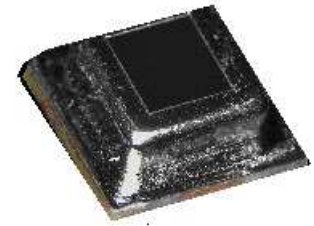


■ Features

- ★ Digital signal output
- ★ Suitable for SMD reflow soldering mounting
- ★ Flat square appearance
- ★ Human body induction trigger
- ★ Pressure sensing trigger
- ★ Ultra-low power consumption

■ Application

- ★ Human body sensing lamps
- ★ Doorbells and alarm equipment
- ★ Toys, automatic hand washing devices, etc.

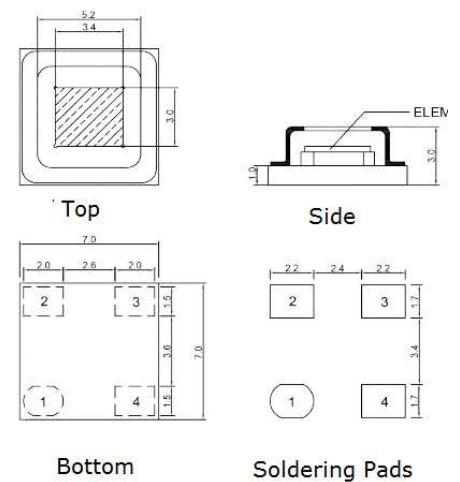


DPS216K is a digital patch sensor suitable for infrared pyroelectric sensing. By converting the received human body signal into 16 bit digital signal output to the peripheral MCU to implement the corresponding function. The output signal size is positively related to the sensing distance, and the sensitivity adjustment can be set by setting the value of signal trigger.

■ Specification (Characteristics)

Item	Symbol	Min	Typical	Max.	Unit
Power supply voltage	VDD	2.2	3.3	5.5	V
Working current	IDD	5	10	20	uA
Output current	IOUT			50	uA
Output voltage	VOUT	VSS-0.3		VDD+0.3	V
Storage temperature		-40		80	°C
Working temperature		-20		70	°C
Low pass filter Cutoff frequency	FL		7		Hz
High pass filter Cut-off frequency	FH		0.44		Hz
Oscillation frequency	FOSC		32		KHz

■ Dimension (Unit: mm)



Pin No.	Function
Pin 1	Drain
Pin 2	Ground
Pin 3	Output
Pin 4	Ground

■ Part Number and Ordering

Part Number Code	Product code + Model no
Ordering Code	ADPS216K