



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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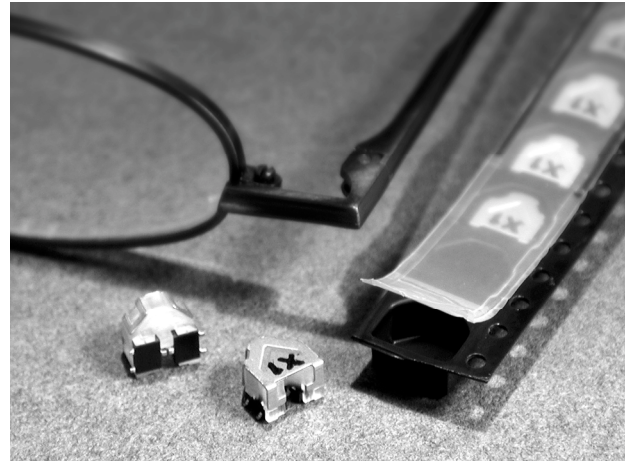


Micro Tilt Sensor

D6B

Surface Mounting Tilt Sensor Fits Space-Confined Installations

- Detect tilting over a range of 35 to 65 degrees in right-and-left inclination
- Gull wing surface mount terminals
- Wide operating temperature range: -10° to 60°C
- Ideal for PDAs, cell phones and test equipment; digital cameras and video cameras to change aspect ratio automatically; also replaces mercury switches in portable space heaters and game machines such as pinball games



Ordering Information

Operation angle	Return angle	Output rating	Operating voltage	Part number
35° to 65°	60° to 30°	0.5 VDC	2.7 to 3.3 VDC	D6B

Specifications

RATINGS

Supply voltage (V_{dd})	-0.1 to 5.0 VDC
Output current max. (I_{out})	±1 mA max.
Operating temperature range	-10° to 60°C with no icing
Storage temperature range	-25° to 70°C
Operating/storage humidity	25% to 85% RH with no icing or condensation

ELECTRICAL CHARACTERISTICS

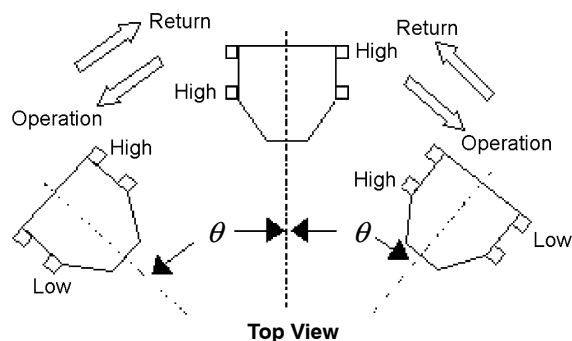
Operating voltage	2.7 to 3.3 VDC
Output high voltage	$V_{dd} - 0.5$ V min.
Output low voltage	0.5 V max.
Current consumption	20 μ A max.; 10 μ A typical ($V_{cc} = 3$)

PERFORMANCE

Refer to the drawing on the following page for an operational diagram showing operation and return angles.

Operation angle	35° to 65° (when output goes from High to Low)
Return angle	60° to 30° (when output goes from Low to High)

Operation

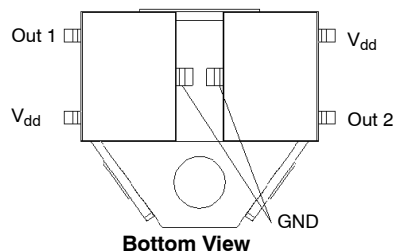


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Gravity
direction

- Note: 1. Operation angle: Output goes from High to Low
2. Return angle: Output goes from Low to High

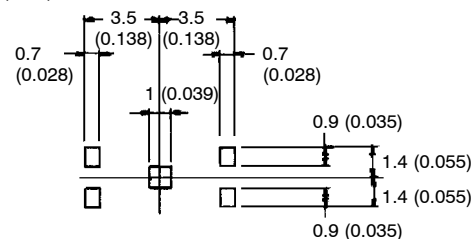
Installation

■ TERMINAL ARRANGEMENT



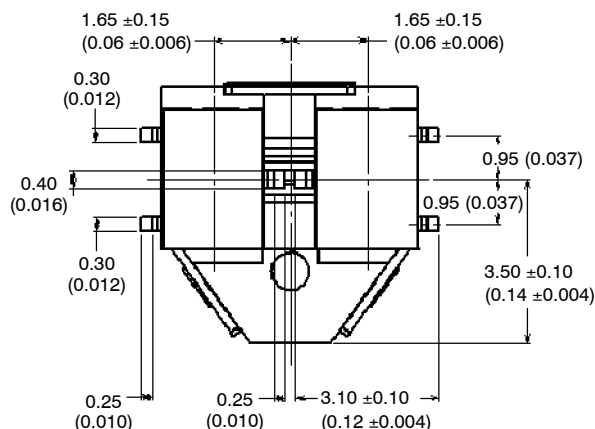
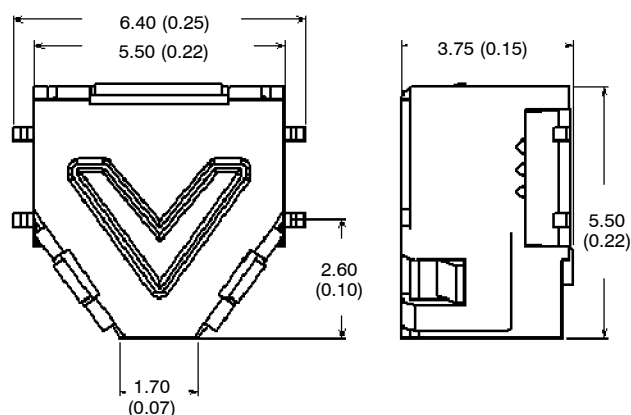
■ SOLDER PATTERN

Unit: mm (inch)



Dimensions

Unit: mm (inch)



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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