mail

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Vishay BCcomponents



Humidity Sensor





QUICK REFERENCE DATA		
VALUE	UNIT	
10 to 90	%	
122 ±15%	PF	
≤0.035		
0.4 ±0.05	PF/%RH	
1 to 1000	kHz	
0.1	%RH/K	
<3		
<5		
≈3	%	
15	V	
0 to 100	%	
0 to +85	°C	
-25 to +85	°C	
1	M	
≈1.3	G	
	VALUE 10 to 90 122 ±15% ≤0.035 0.4 ±0.05 1 to 1000 0.1 <3 <5 ~3 15 0 to 100 0 to +85 -25 to +85 1 ~1.3	

Note

Unless otherwise stated, measurements are in accordance with *"IEC publication 60539"*.

Stability is in accordance with "CECC 43000" and "IEC 60068-2".

DIMENSIONS in millimeters



APPLICATIONS

- Humidity measurements in electronic hygrometers for domestic use
- Self-regulating air humidifiers, etc.

DESCRIPTION

This capacitive atmospheric humidity sensor consists of a non-conductive foil, which is covered on both sides with a layer of gold. The dielectric constant of the foil changes as a function of the relative humidity of the ambient atmosphere and, accordingly, the capacitance value of the sensor is a measure for relative humidity. The foil is clamped between contact springs and assembled in a plastic housing. It is provided with two connecting pins which fit printed-circuit boards with a grid pitch of 2.54 mm, provision is also made for fastening with 3 mm bolts. The characteristics are not affected by incidental water condensation on the sensor foil. It should not be exposed to either acetone or chlorine vapours.

MOUNTING

The device can be soldered directly on to a printed-circuit board or fastened with 3 mm bolts.

SOLDERING

Solderability: ≤240 °C; ≤4 s.

Resistance to heat: ≤240 °C; ≤4 s.

ROBUSTNESS OF TERMINATIONS

Tensile strength: 10 N.

ELECTRICAL CHARACTERISTICS



Typical capacitance as a function of relative humidity.