



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!



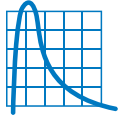
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Humidity Sensor HS30P

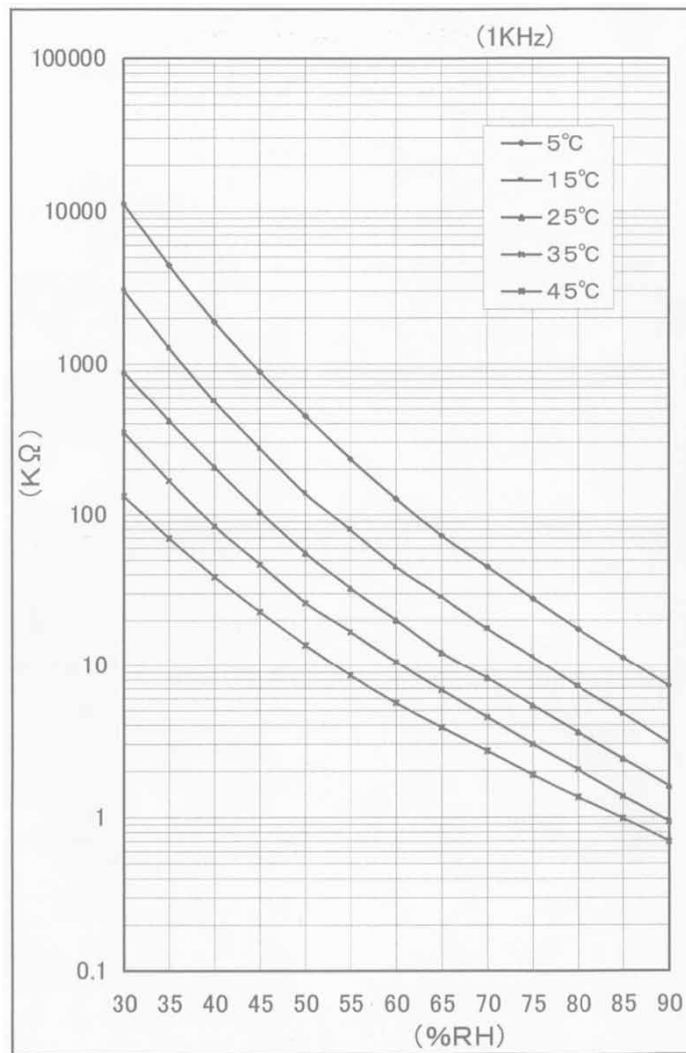


Characteristics of Humidity Sensor

- Part name : Humidity sensor
- Type name : HS-30P
- Storage temperature : -20~70 °C
- Storage humidity : 20~90 %RH (Without condensation)
- Operating humidity range : 20~90 %RH (Do not let it have dewdrops)
- Operating temperature range : -20~60 °C
- Rated working voltage : AC 1 V (50Hz~1KHz)
- Rated power : 0.3 mW
- Nominal impedance value : 55 k Ω (25°C, 50%RH)
- Tolerance on impedance value : Min 32.3k Ω / Max 99.7 k Ω
- Typical sensitive characteristics : shown in Figure 1
- Typical response characteristics : shown in Figure 2
- Dimensions : shown in Figure 3
- Reliability (Impedance value change as relative humidity at 25°C, 50%RH)
 - Dry heat storage : $\pm 5\%$ RH (70°C, 1000 hr.)
 - Cold storage : $\pm 5\%$ RH (-25°C, 1000 hr.)
 - Damp heat storage : $\pm 5\%$ RH (60°C \pm 5°C, 90~95%RH, 1000 hr.)
 - Heat cycle test : $\pm 5\%$ RH (-25°C~70°C, 500 cycles)
 - Low humidity storage : $\pm 5\%$ RH (25°C, 20 %RH, 1000 hr.)

HS30P Humidity Sensor Specifications

Figure 1 : Typical Sensitive Characterists

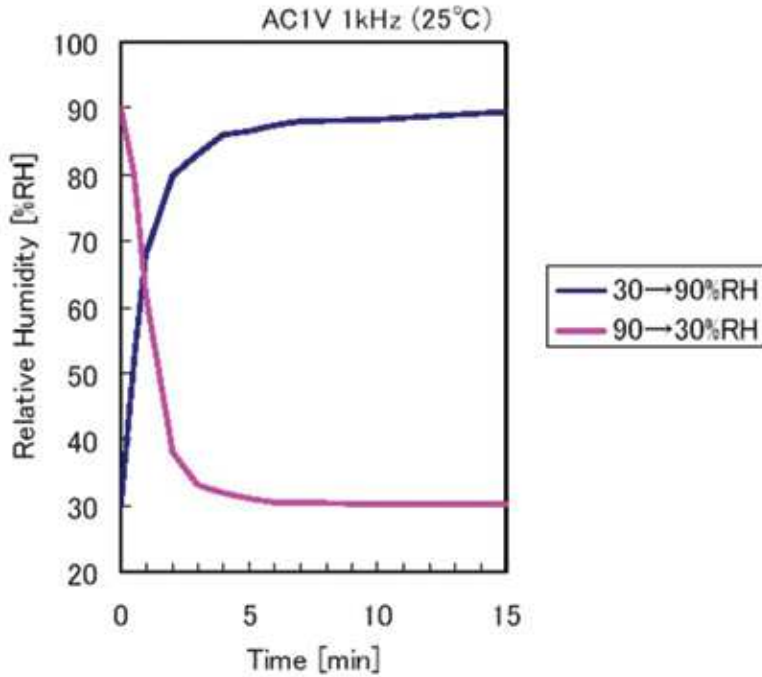


(Unit : Kohm)

%RH \ °C	30	40	50	60	70	80	90
5	11300	1980	460	138	48	17.8	4.5
15	3380	620	155	51	19.5	8	3.4
25	1020	215	62	22	8.6	3.6	1.6
35	360	83	27	9.9	4.2	1.9	0.9
45	150	36	12.9	5.2	2.3	1.1	0.5

HS30P Humidity Sensor Specifications

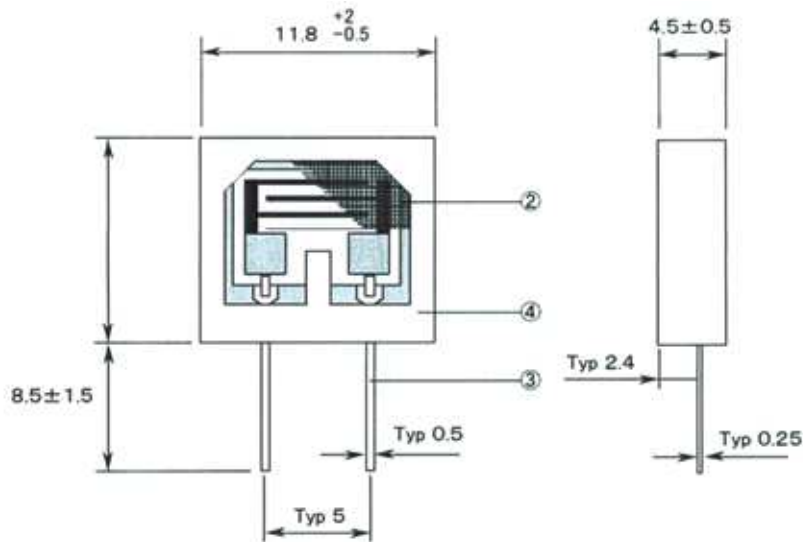
Figure 2 : Typical Response



Recommended Handling Practices:

- Use only within specified conditions.
- Do not disassemble or change any parts.
- Do not touch sensor element.
- Do not apply any direct current to the sensor.
- Do not touch the film and the surface of the sensor.
- In use and stock, freezing, dust, mist, oil, alcohol, corrosive gases or any other dirty/anomalous ambient may cause degradation of the sensor's characteristics.
- Protect the sensor film from flux/fume and high temperature during the soldering.
- Do not put sensor in water.

Figure 3 : Dimensions (Unit : mm)



No	Part Name	Material
1	Humidity Sensor	HS-30P
2	Filter	Mesh
3	Lead	PBR
4	Case	Polypropylene (Color : White)

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