

# 錫麟企業有限公司 Sencera Co. Ltd.

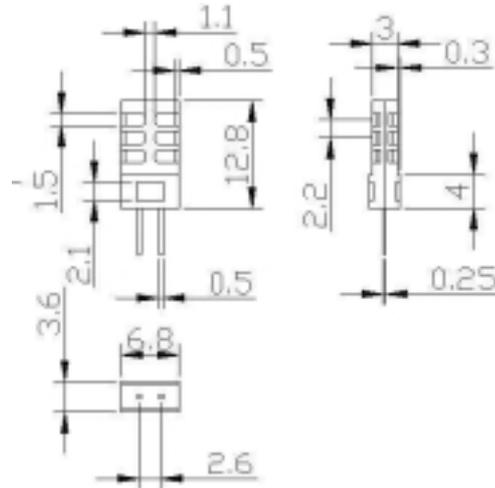
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## H25K5 resistance humidity sensor specification

### Applications

Humidity detecting.  
Humidifier, dehumidifier  
Hygrometer,  
Humidity controller.



### Electric characteristics

Rated voltage	DC 8~10V Or AC 1Vrms (AC0.26mW)
Operating temp. range	0°C ~ +60°C
Recommended driving Freq.	1 KHz
Operating humidity range	Less than 90%RH
Storage temp. range	-20°C ~ +85°C
Storage humidity range	90% RH Max.
Standard resistance	25KΩ at 25°C, 60% RH, 1KHz
Response time	Max. 60 second.
Accuracy	±5%RH at 25°C, 60% RH
Hysteresis	3%RH Max. (when 40%RH change to 80%RH)

Soldering request: Not over 3 seconds in the solder tank of 250±5°C and can not immersed the Lead into the solder tank over 3mm.

### Sensor resistance table (unit:K Ω) At 1 KHz

	30%RH	40%RH	50%RH	60%RH	70%RH	80%RH	90%RH
5 °C	4900	1250	360	120	40	13	4.8
10 °C	2100	550	157	51	19	7	3.8
20 °C	1200	320	85	30	12	4.8	2.1
25 °C	920	240	66	23	10	4.2	1.9
30 °C	650	170	51	20	8	3.3	1.4
40 °C	380	105	35	13.5	5.4	2.4	1.1
50 °C	210	70	24.5	9.8	4.2	1.8	0.9

Fig. 2: H25K5 Reference circuit

