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H12K5 resistance humidity sensor specification

Applications

Humidity detecting.
Humidifier, dehumidifier
Hygrometer,
Humidity controller.

Electric characteristics

Rated voltage	DC 1~12V Or AC 1Vrms (AC0.3mW)
Operating temp. range	0°C ~ +50°C
Recommended driving Freq.	1 KHz
Operating humidity range	20~ 90%RH
Storage temp. range	-20°C ~ +85°C
Storage humidity range	90% RH Max.
Standard resistance	22KΩ 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, Voltage 1Vrms.

	20%RH	30%RH	40%RH	50%RH	60%RH	70%RH	80%RH	90%RH
5 °C		18500	2800	530	138	48	17.8	7.0
10 °C		10700	1580	302	84	30	11.7	4.9
15 °C	17800	5910	980	187	51	19.5	8.0	3.4
20 °C	14100	3400	560	125	34	13.6	5.8	2.5
25 °C	8060	1780	288	65	22	8.6	3.6	1.6
30 °C	5500	950	175	41	14.7	6	2.7	1.2
35 °C	2750	540	115	30	9.9	4.2	1.9	0.89
40 °C	1650	370	74	22	7.2	3.1	1.45	0.67
45 °C	930	255	48	13.5	5.2	2.3	1.1	0.51

