



MK33 Mini Capacitive Humidity Sensor

Product

The MK33 Mini is the consequent miniaturization of the well proven MK33 sensor. Using the MK33 polymer on a minimal sensor surface this sensor exhibits a signal output comparable to the P14 and simultaneously brings the best in chemical resistance at a affordable price.

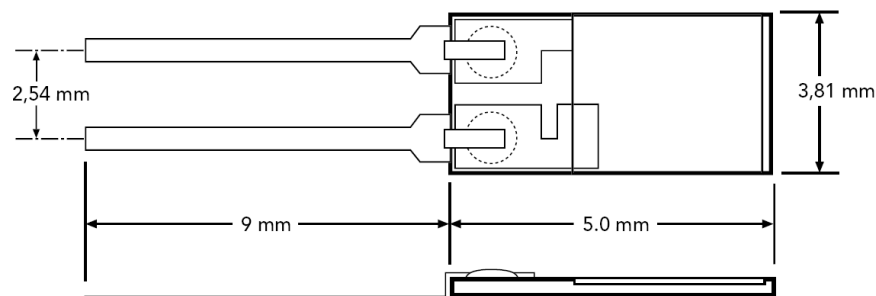
Advantages

- fast response time
- hot water resistance
- excellent hysteresis behavior
- mechanically durable
- wide linearity range
- wide range of applications
- high chemical resistance

Technical Data

Sensor Type:	MK 33
Measurement principle:	Capacitive Polymer Humidity Sensor
Mechanical dimensions:	W= 3,81 x L= 5,00 x T= 0,4 mm
Humidity Operating Range:	0 ... 100% Relative Humidity
Operating temperature range:	-40 ... +190 deg C
Capacitance:	200 pF \pm 40 pF (at 30% RH)
Sensitivity:	0,3 pF / %RH (20 ... 95% RH)
Loss Factor:	< 0.01 (at 90% RH)
Accuracy:	< 2,0% RH (20 ... 95% RH)
Hysteresis:	< 2,0% RH
Recovery Time:	< 10 s (50% RH \rightarrow 0% RH; $V_{air} = 2$ m/s., response time < 6 s typ.)
Frequency Range:	1 ... 100 kHz
Maximum Operating Voltage:	< 12 Vpp AC
Signal Form:	alternating signal without DC bias
Connectors:	SIL, wires or customer specific

Dimensions

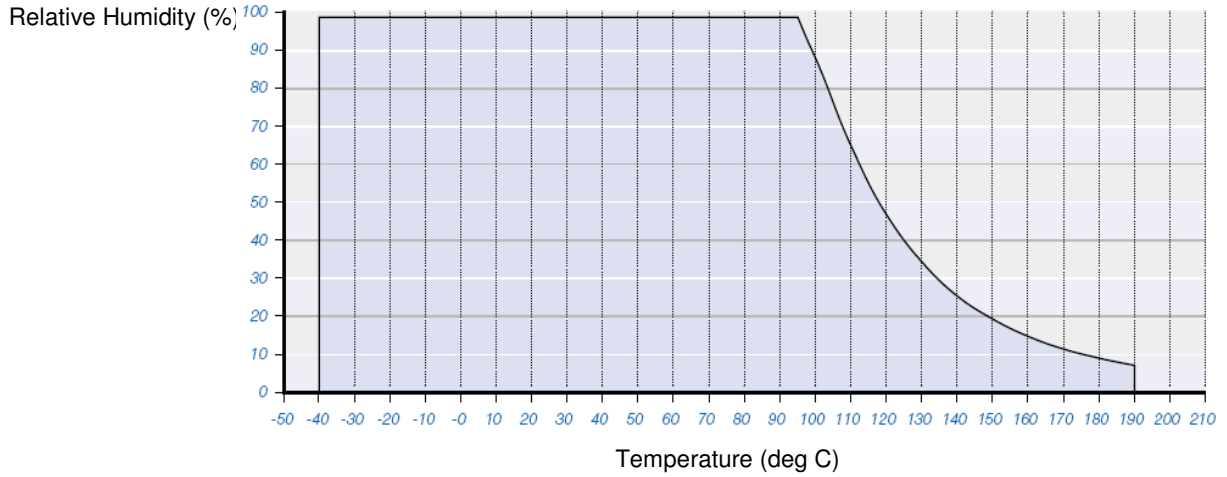


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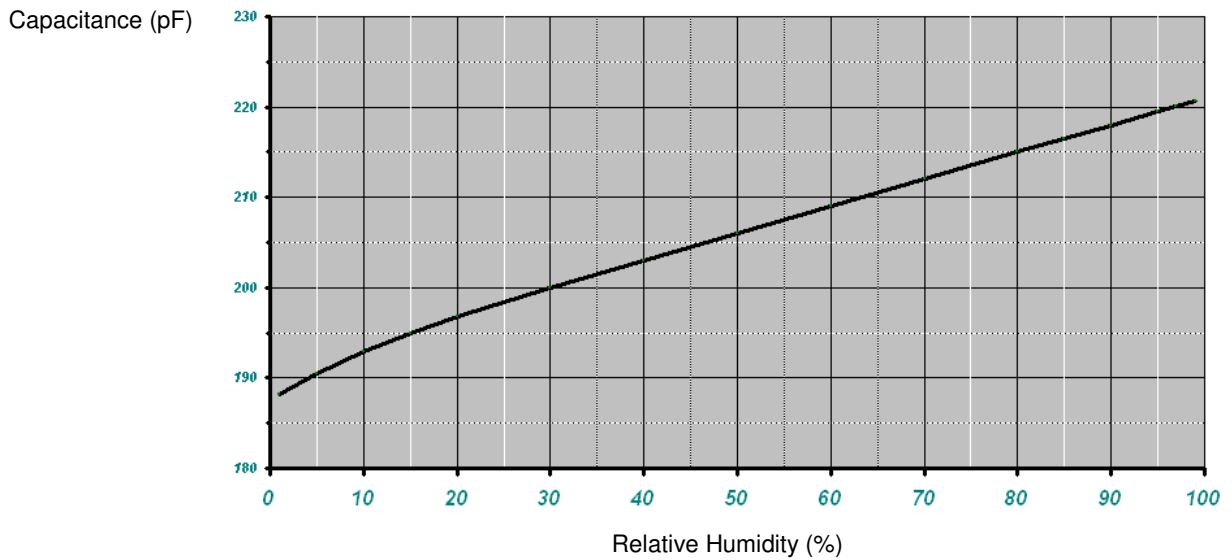


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Humidity-Temperature-Range



Sensor Characteristic



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