

HIH-4602-L



HIH-4602 Series monolithic IC humidity sensor with integral precision RTD in TO-39

Features

- Linear voltage output vs %RH
- Laser-trimmed interchangeability
- Chemically resistant
- Enhanced accuracy, fast response
- Stable, low drift performance
- Built-in static protection

Potential Applications

- Refrigeration equipment
- Drying
- Meteorology
- Battery-powered systems
- OEM assemblies

Description

The HIH-4602-L Relative Humidity (RH) sensors deliver instrumentation-quality RH sensing performance in a rugged, low cost, slotted TO-39 housing that provides a quick response while still maintaining the robustness of an enclosed component. The laser-trimmed, thermoset polymer capacitive sensing elements have on-chip integrated signal conditioning. The HIH-4602-L-CP includes calibration and data printout.

Product Specifications	
Package Type	TO-39 can
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Operating Humidity Range	0% RH to 100% RH
Interchangeability	0% RH to 59% RH \pm 5%, 60% RH to 100% RH \pm 8%
Accuracy (BFSL)	\pm 3.5%
Hysteresis	3% RH
Response Time	5 s 1/e in slow moving air
Repeatability	\pm 0.5% RH
Settling Time	70 ms max.
Max. Supply Voltage	5.8 Vdc
Max. Supply Current	500 μ A
Stability at 50% RH	\pm 1.2% RH
Output Signal	Analog voltage
Covered Device	Yes
Moisture/Dust Filter	No
Combined Humidity and Temperature Sensor	No
Calibration and Data Printout	No