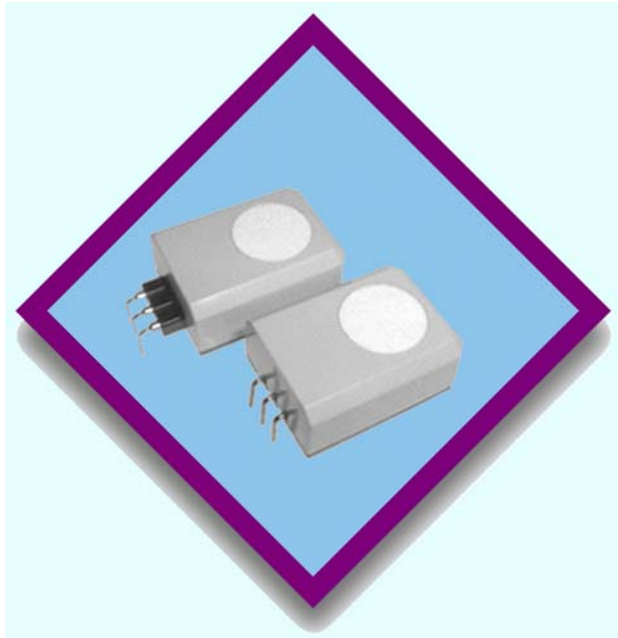




● NEMOTO SENSORTECH DIVISION
● NANO & CYBERTECH DIVISION



TECHNICAL INFORMATION SHEET: NAP-505 Electrochemical Carbon Monoxide Sensor



Specifications NAP-505:

| | |
|------------------------------------|-----------------------|
| Detectable gas: | Carbon monoxide |
| Detection range: | 0 – 1000 ppm |
| Output current: | 40nA/ppm, +/- 10nA |
| Repeatability: | +/- 2% |
| Zero output in clean air: | less than +/-5ppm |
| Response time (T _{90%}): | < 30 seconds |
| Temperature drift (zero) | <10ppm (-20 to +50°C) |
| Long term output drift | <5% per year |
| Expected lifetime*: | More than 5 years |
| Weight | 2.6g |

* measured as time for sensitivity to be less than 40% of original output.

Operating conditions:

| | |
|---------------------------------|-----------------|
| Operating temperature: | -20°C to + 50°C |
| Humidity range (constant) | 15-90% RH |
| Humidity range (intermittent) | 0-99% RH |
| Pressure: | 0.9 – 1.1 atm |
| Recommended load resistance: | 10 ohms |
| Bias voltage: | Not required |
| Recommended storage temperature | 0-20°C |
| Recommended storage time | 6 months |

Further performance data and information on operating characteristics can be found in the Characterisation Document NAP505-CD

General Description:

The NAP-505 Gas Sensor is a new, low-cost 3 Electrode Electrochemical cell designed for the detection and measurement of carbon monoxide in the range 0-1000ppm, in domestic carbon monoxide detectors, fire detectors and air quality monitors.

Features:

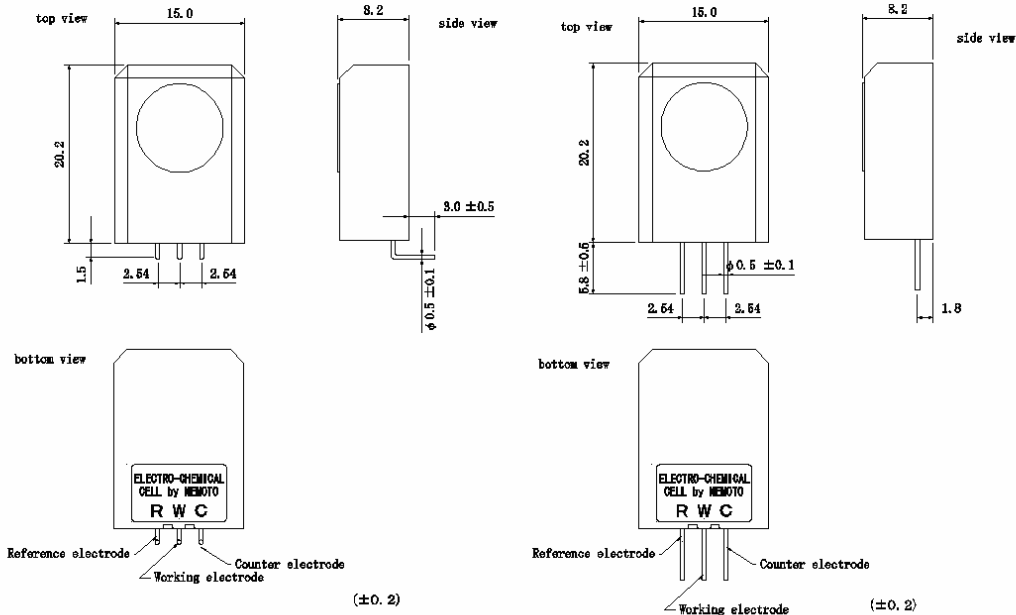
- **3-Electrode design for greater stability**
- **Compact, leak-proof enclosure**
- **Resistant to shocks and vibration**
- **Terminals may be soldered**
- **Linear Output**
- **Highly specific to target gas**
- **Unaffected by humidity**
- **Very low long term drift**
- **Low power consumption**

Nemoto has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data sheet may be changed without notice

ds-n-NAP505.doc, issue 5, Feb 2006



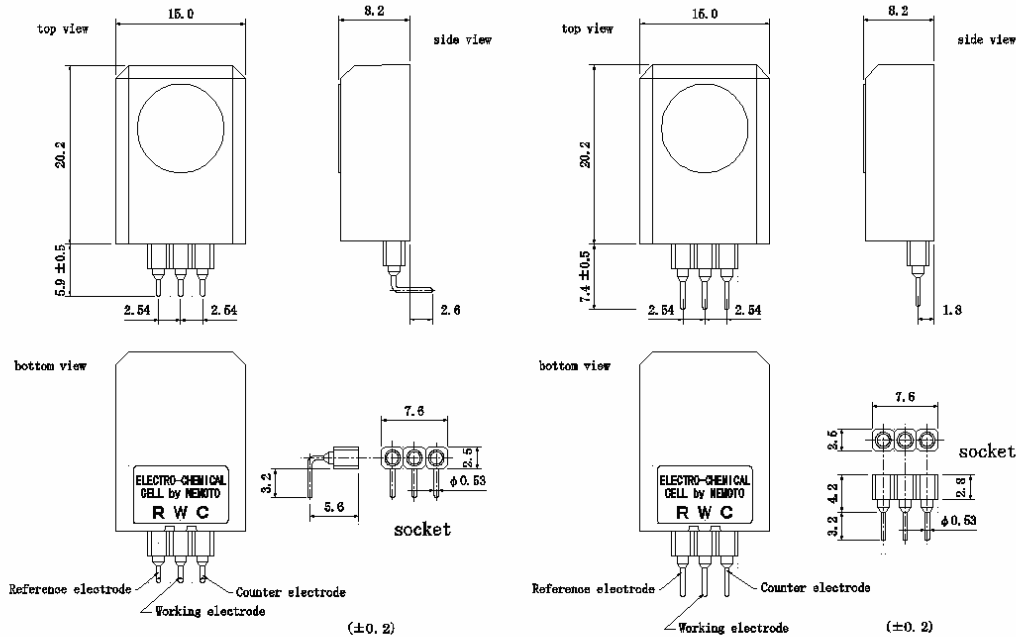
Direct Soldering Model



NAP-505R (Right-Angled Solder Pin)

NAP-505S (Straight Solder Pin)

Socket Model



NAP-505RS (Right-Angled Socket)

NAP-505SS (Straight Socket)