



SS490 Series Standard Miniature Ratiometric Linear Hall-Effect Sensor; radial lead IC package

*Actual
product
appearance
may vary.*

Product Specifications

| | |
|-----------------------------------|---|
| Product Type | Hall-Effect Digital Position Sensor IC |
| Package Quantity/Type | Available in 1,000/Bag |
| Package Type | Radial Lead IC |
| Supply Voltage | 4.5 Vdc to 10.5 Vdc |
| Output Type | Sink/Source |
| Termination Type | PC Board |
| Magnetic Actuation Type | Ratiometric |
| Operating Temperature | -40 °C to 150 °C [-40 °F to 302 °F] |
| Storage Temperature | -55 °C to 165 °C [-67 °F to 329 °F] |
| Output Voltage | 0.2 Vdc to ($V_s - 0.2$ Vdc) typ., 0.4 Vdc to ($V_s - 0.4$ Vdc) min. |
| Linearity (% of Span) | -1.0% typ. |
| Temperature Error | ± 0.06 (Null Shift); -0.01 min., 0.05 max. (Sensitivity) |
| Availability | Global |
| Supply Current | 8.7 mA @ 5 Vdc |
| Sensitivity | 3.125 mV ± 0.125 mV/G |
| Output Voltage Swing (Negative G) | 0.4 Vdc |
| Output Voltage Swing (Positive G) | $V_s - 0.4$ Vdc |
| Output Current Sourcing | 1 mA min.; 1.5 mA typ. |
| Output Current Sinking | 1 mA min.; 0.6 mA typ. |
| Null Output | 2.50 Vdc ± 0.075 Vdc |
| Response Time | 3 μs |
| Series Name | SS490 |
| Magnetic Range | -60 mT to 60 mT [-600 G to 600 G]min.; -67 mT to 67 mT [-670 G to 670 G] typ. |
| Output Voltage Span | 0.4 Vdc to ($V_s - 0.4$ Vdc) min.; 0.2 Vdc to ($V_s - 0.2$ Vdc) typ. |