



Product Features

- Linear Position Sensor
- 1500mmMax Effective length
- Superior resistance stability in environment change
- 3-watt power rating@room tem.
- Over 1 million long operational life
- Optional 1&2% tracking precision linearity



SO01 Series Long Life Soft Potentiometer

Electrical Characteristics

Resistance Range

500Ω through 500KΩ, linear

Resistance Tolerance

10%; 20%; 30%

Insulation Resistance

100 MΩ Min. @ 500 VDC

Dielectric Withstanding Voltage

1 minute at 500VAC

Power Rating

3 Watt max. @ 25°C, ≤ 1 Watt recommended

Linearity

≤1% & 2%

Operating voltage

250 VAC Max.

Environmental Characteristics

Operational Life

±10%ΔR After 1000,000 cycles @ 1.2N wiper

Operating Temperature Range

-30°C~85°C

Temperature cycling test

±20%ΔR@-20 ±3°C for 30 min and +60±3°C for 30 min for each cycle.

Dry heat test

±10% ΔR 96 hrs 80±2° C with 2 hrs air dry

Temperature coefficient of resistance

±2000ppm/ °C Max.

Cold test

±10% ΔR 96 hrs -30±2° C with 2 hrs air dry

Humidity test

±20% ΔR @96 hrs 40° C & 95% RH with 2 hours air dry

Mechanical Characteristics

Effective Electrical Travel:

10 to 2000mm

Thickness

≤0.8mm

Resistance to soldering heat

Manual350 °C ±5 °C for 5 sec.

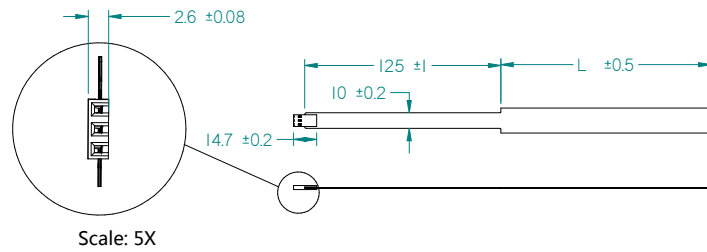
Wave260 °C ±5 °C

Life Cycle

>1,000,000 cycles @ 1.2N wiper

Product Dimensions

Dimensions Unit: mm



TYPE	10mm	100mm	125mm	200mm
L	21mm	111mm	136mm	211mm

