



Product Specification

Part No.: MS17ST series Potentiometer

Electrical Characteristics

Resistance Range	1K Ω ~ 1 meg Ω For values outside this range, please consult our office.
Resistance Tolerance	< 5%, \pm 5%, \pm 10%, \pm 20% Outside this range, please consult our office
Resistance Tapers	Linear Other tapers available. Please consult our office.
End Resistance	< 3 Ω
Independent Linearity	< 3% (< 1% available. Consult of our office for details)
Power Rating (wattage)	2 watts @ 70°C , 0 watt @ 120 °C
Peak Noise (Contact Resistance Variation)	< 2% Rn
Dielectric Strength	750VAC
Max. Input Voltage	250VDC
Electrical Angle of Rotation	300° \pm 5°
Insulation Resistance	>10 meg Ω
Operating Voltage (max.)	250V AC
Resolution	Essentially Infinite

Environmental Characteristics

Operating Temperature	-25 ° to + 120°C
Storage Temperature	-55 ° to + 120°C
Temperature Coefficient	< 500 ppm/ °C
Load Life	$\Delta R / R \leq \pm 10\%$ (70°C 1000 hours)
Operating Life	$\Delta R / R \leq \pm 7\%$
IP Rating	IP50
Soldering Heat Resistance	350°C @ 3 seconds $\Delta R / R \leq \pm 7\%$
Temperature Cycling	(-25°C, +85 °C @ 30 minutes each, 5 cycles) $\Delta R / R \leq \pm 10\%$
Vibration	(10 – 55 Hz, 1.5mm amplitude, 3 directions) $\Delta R / R \leq \pm 5\%$



Mechanical Characteristics

Resistive Element	Conductive Plastic
Mechanical Angle of Rotation	330° ± 5°
Max. Torque at End Stops	>9.0 Kg-cm (>7.8 Lb-in)
Wiper Torque	50 gr-cm ~ 500 gr-cm 0.695 oz-in ~ 6.95 oz-in
Rotational Life	100K cycles (standard) 500K cycles 1 million cycles 5 million cycles 10 million cycles