



# Product Specification

## V9M series Potentiometer

### Electrical Characteristics

Resistance Range	1K $\Omega$ ~ 1 meg $\Omega$ For values outside this range, please consult our office.
Resistance Tolerance	$\pm 20\%$ (standard) $\pm 10\%$ , available upon request
Resistance Tapers	(B) Linear, (A) Log, (C) Reverse Log + many more
Power Rating (wattage)	0.05 watts
Rotational Noise	$\leq 100\text{mV}$
Electrical Angle of Rotation	$280^\circ \pm 10^\circ$
Insulation Resistance	100 meg $\Omega$ minimum @ 250VDC
Operating Voltage (max.)	50VAC, 20VDC
Tracking Error (matching)	$\leq \pm 4\text{dB}$ @ $-40^\circ\text{C} \sim 0\text{dB}$

### Environmental Characteristics

Operating Temperature	$-10^\circ$ to $+60^\circ\text{C}$
Storage Temperature	$-25^\circ$ to $+70^\circ\text{C}$
Soldering Heat Resistance	Hand Solder - $350^\circ\text{C} \pm 5^\circ$ @ 3 seconds $\pm 1\text{s}$ Solder Bath - $260^\circ\text{C} \pm 5^\circ$ @ 3 seconds $\pm 1\text{s}$

### Mechanical Characteristics

Resistive Element	Carbon
Mechanical Angle of Rotation	$300^\circ \pm 10^\circ$
Max. Torque at End Stops	6.0 gF
Push Pull Strength	8K gF
Rotational Torque	20 gr-cm ~ 200 gr-cm
Rotational Life	50,000 cycles (standard) 100K cycles available upon request