

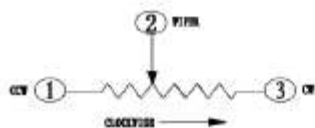
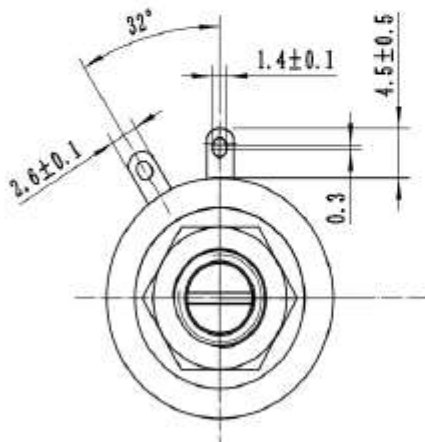
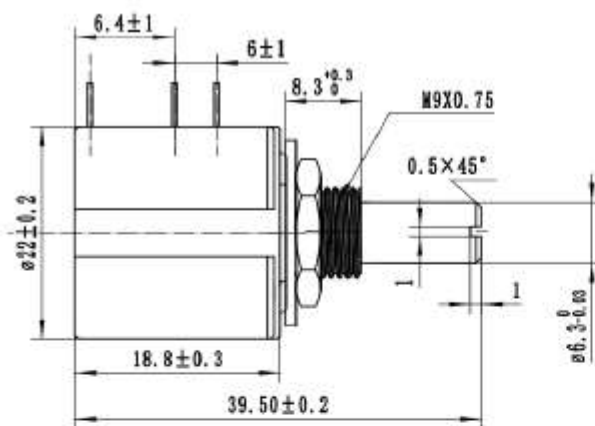


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### 3540 Series – Precision Potentiometers



#### ★ Characteristics

##### ■ Electrical Characteristics

Standard Resistance Range: 100Ω—100KΩ

Resistance Tolerance:  $\pm 5\%$

Independent Linearity:  $\pm 0.5\%$

Effective Electrical Travel:  $\geq 3600^\circ - 10^\circ$

Terminal Resistance:  $\leq 0.2\%R$  or  $5\Omega$

Noise:  $\leq 3\%R$  or  $3\Omega$

Insulation Resistance:  $R_i \geq 1G\Omega$

Withstand Voltage: 101.3Pa 710V, 8.5kPa 470V

##### ■ Environment Characteristics

Rated Power:  $+70^\circ\text{C}$  2W,  $+125^\circ\text{C}$  0W

Temperature Range:  $-55^\circ\text{C}$ — $+125^\circ\text{C}$

Temperature Coefficient:  $\pm 100\text{ppm}/^\circ\text{C}$

Temperature Variation:  $\Delta R \leq \pm 2\%R$ ,  $\Delta(U_{ab}/U_{ac}) \leq \pm 1\%$

Vibration:  $390\text{m}/\text{s}^2$ , 4000 cycles,  $\Delta R \leq \pm 1\%R$

Collision: 10—500HZ, 0.75mm or  $98\text{m}/\text{s}^2$ , 6h,

$\Delta R \leq \pm 1\%R$ ,  $\Delta(U_{ab}/U_{ac}) \leq \pm 2\%$

Climate Category:  $\Delta R \leq \pm 3\%R$ ,  $R_i \geq 100M\Omega$

Electrical Endurance at  $70^\circ\text{C}$ : 2W, 1000h,  $\Delta R \leq \pm 3\%R$

Mechanical Endurance: 10000 cycles,  $\Delta R \leq \pm 3\%R$

Steady damp-heat:  $\Delta R \leq \pm 3\%R$ ,  $R_i \geq 100M\Omega$

##### ■ Physical Characteristics

Total Mechanical Travel:  $3600^\circ \pm 10^\circ$

Starting Torque:  $\leq 36\text{mN}\cdot\text{m}$

Clutch Torque:  $\geq 300\text{mN}\cdot\text{m}$

Standard Packaging: 25 pcs/box