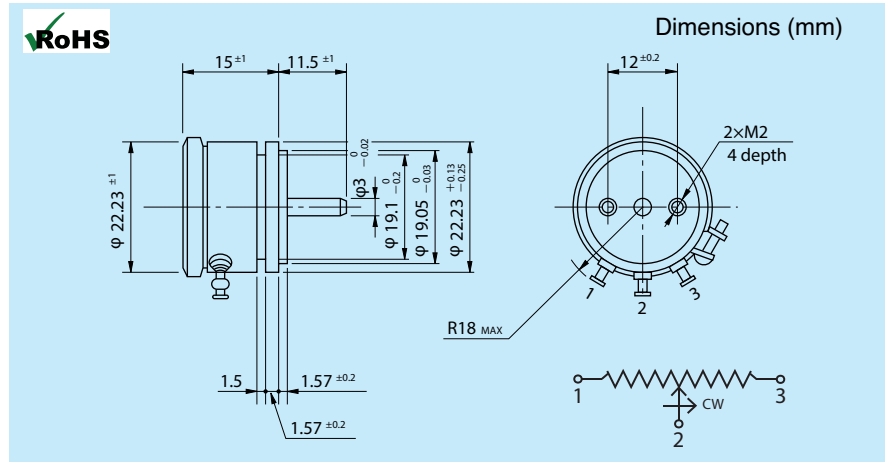


STCS22 Series

Single Turn Potentiometer (Conductive Plastic)



• General Specifications (Note 1)

Resistance Values (Ω): 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K

Resistance Tolerance: Standard Class $\pm 10\%$

Independent Linearity

Tolerance: Standard Class $\pm 1.0\%$
Precision Class $\pm 0.5\%$
Super Precision Class $\pm 0.25\%$

Resolution: Essentially Infinite

Output Smoothness: Below 0.1% against input voltage

Rotational Life: 50,000,000 shaft revolutions (no load)

Protection Grade: IP40

Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Contact Resistance Variation:

Below 2% C.R.V.

Power Rating:

1.0W @ 70°C (0W @ 105°C)

Electrical Travel:

$320^{\circ} \pm 5^{\circ}$

Mechanical Travel:

360° (continuous)

Insulation Resistance:

$> 1000\text{M ohms @ } 1000\text{ VDC}$

Dielectric Strength:

1 minute @ 1000 VAC

Starting Torque:

$< 1.5\text{mN}\cdot\text{m}$ (15gf·cm)

Temperature Coefficient:

$\pm 400\text{p.p.m / }^{\circ}\text{C}$

Vibration:

15G / 10Hz to 2,000Hz

Shock:

50 G / 11ms

Mass:

Approx 15g

• Special Specifications Available

Extra taps (Available up to 1 tap). Multi-ganged (up to 5 gangs, housing length extended by 8.5mm per gang). Shaft with front and rear extension (rear shaft with 3mm dia. and 10mm length). With stopper (angle becomes 320° and stopper strength is $0.3\text{N}\cdot\text{m}$ [3kgf · cm]). Special electrical angles. Shaft with $\phi 3.175\text{mm}$. Special machining on shaft.