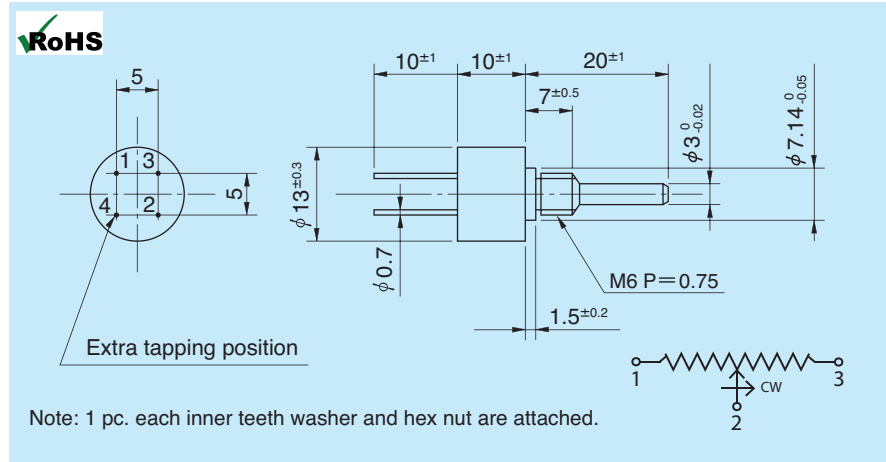


STC12 / STC12S Series

Single Turn Potentiometer (Conductive Plastic)



• Standard Model Nos.

STC12	(without stop, continuous)
STC12S	(with stop)

• General Specifications (Note 1)

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

Resistance Tolerance: Standard Class $\pm 15\%$
Precision Class $\pm 10\%$

Independent Linearity Tolerance: Standard Class $\pm 2.0\%$
Precision Class $\pm 1.0\%$

Resolution: Essentially Infinite
Output Smoothness: Below 0.1% against input voltage
Rotational Life: 5,000,000 shaft revolutions (no load)
Protection Grade: IP40
Operating Temperature: $-55^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (Note 1)

• Contact Resistance

Variation: Below 3% C.R.V.
Power Rating: 0.2W @ 70°C (0W @ 105°C)
Electrical Travel: $300^{\circ} \pm 5^{\circ}$
Mechanical Travel: 360° (continuous)
Insulation Resistance: $> 1000\text{M ohms @ } 500\text{ VDC}$
Dielectric Strength: 1 minute @ 500 VAC
Starting Torque: $< 2\text{mN}\cdot\text{m}$ ($20\text{gf}\cdot\text{cm}$)
Temperature Coefficient: $\pm 400\text{p.p.m / } ^{\circ}\text{C}$
Vibration: 15G / 10Hz to 2,000Hz
Shock: 50 G / 11ms
Mass: Approx 8g

• Special Specifications Available

Extra taps (Available up to 1 tap), Shaft with front and rear extension (Rear shaft with 1mm dia. and 10mm length), With stopper (Rotating angle becomes 310° and stopper strength is $0.3\text{N}\cdot\text{m}$ [$3\text{kgf}\cdot\text{cm}$]), Special electrical travel, Shaft dia. ($\varnothing 3.175\text{mm}$)•bushing with inch dimensions, Special machining on the shaft.

Note 1: Customers should test and verify device performance in any given application.