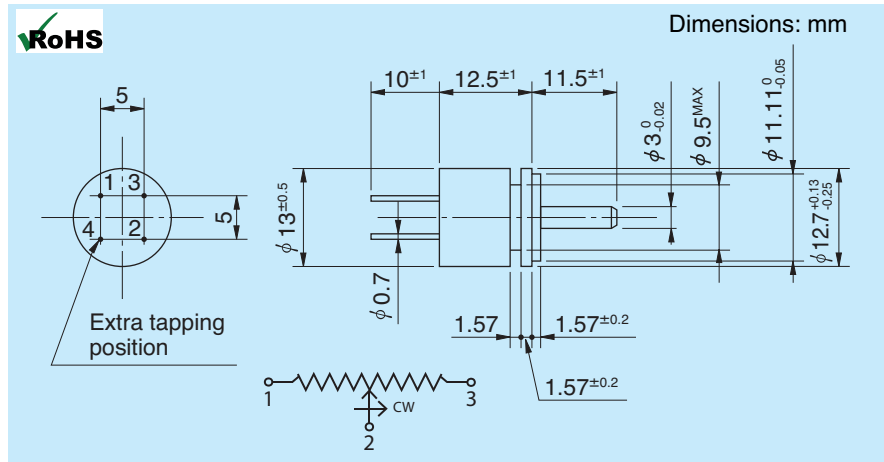


# STCS12 Series

## Single Turn Potentiometer (Conductive Plastic)



### • General Specifications (Note 1)

**Resistance Values ( $\Omega$ ):** 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:** 10,000,000 shaft revolutions (no load)  
**Protection Grade:** IP40  
**Operating Temperature:**  $-55^{\circ}\text{C} \sim +105^{\circ}\text{C}$  (Note 1)

**Contact Resistance Variation:**

**Power Rating:** 0.2W @  $70^{\circ}\text{C}$  (0W @  $105^{\circ}\text{C}$ )

**Electrical Travel:**  $300^{\circ} \pm 5^{\circ}$

**Mechanical Travel:**  $360^{\circ}$  (continuous)

**Insulation Resistance:**  $> 1000\text{M ohms @ } 500\text{ VDC}$

**Dielectric Strength:** 1 minute @ 500 VAC

**Starting Torque:**  $< 2\text{mN}\cdot\text{m}$  (20gf $\cdot\text{cm}$ )

**Temperature Coefficient:**

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

**Vibration:** 15G / 10Hz to 2,000Hz

**Shock:** 50 G / 11ms

**Mass:** Approx 5g

### • 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  $310^{\circ}$  and stopper strength is  $0.3\text{N}\cdot\text{m}$  [3kgf $\cdot\text{cm}$ ]), Special electrical travel, Shaft dia. ( $\varnothing 3.175\text{mm}$ ), Special machining on shaft

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