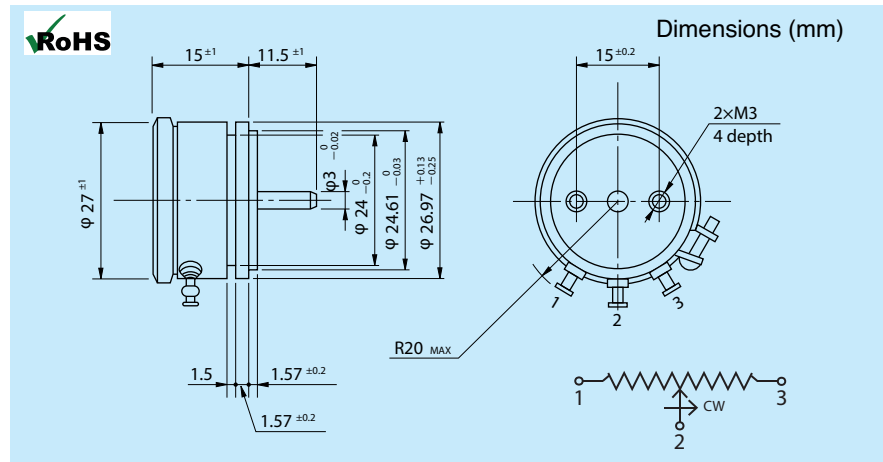


## Single Turn Conductive Plastic Potentiometer

## Series STCS30



### • General Specifications (Note 1)

**Resistance Values ( $\Omega$ ):** 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  $\pm 0.20\%$

**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:**  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$  (Note 1)

**Contact Resistance Variation:**

Below 2% C.R.V.

**Power Rating:**

1.5W @  $70^{\circ}\text{C}$  (0W @  $105^{\circ}\text{C}$ )

**Electrical Travel:**

$340^{\circ} \pm 5^{\circ}$

**Mechanical Travel:**

$360^{\circ}$  (continuous)

**Insulation Resistance:**

> 1000M ohms @ 500 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 25g

### • 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  $320^{\circ}$  and stopper strength is  $0.3\text{N}\cdot\text{m}$  [3kgf $\cdot\text{cm}$ ]). Special electrical angles. Shaft with  $\phi 3.175\text{mm}$ . Special machining on shaft.

Note 1: Customers should test and verify device performance in any given application. General specifications are measured at temperatures of  $+15^{\circ}\text{C} \sim +35^{\circ}\text{C}$ . Specifications subject to change without notice.