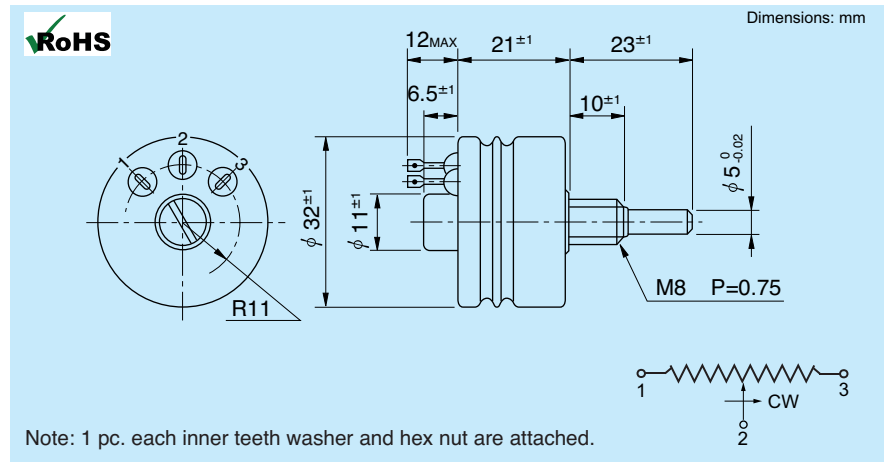


## Single Turn Conductive Plastic Potentiometer Oil Filled

Series STCOF30



### • 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  $\pm 0.5\%$

**Resolution:** Essentially Infinite

**Output Smoothness:** Below 0.1% against input voltage

**Rotational Life:** 10,000,000 shaft revolutions (no load)

**Protection Grade:** IP65

**Operating Temperature:**  $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$

**Contact Resistance**

**Variation:** Below 2% C.R.V.

**Power Rating:** 1.0W @  $70^{\circ}\text{C}$  (0W @  $60^{\circ}\text{C}$ )

**Electrical Travel:**  $280^{\circ} \pm 5^{\circ}$

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

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

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

**Starting Torque:** Below  $30\text{mN}\cdot\text{m}$  ( $300\text{gf}\cdot\text{cm}$ )

**Temperature**

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

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

**Shock:** 50 G / 11ms

**Mass:** Approx 40g

### • Special Specifications Available

Extra taps (available up to 1 tap). Special electrical travel. Inch dimension shaft (6.35mm, 1/4"). Inch dimension bushing (3/8-32). Special shaft machining. Servo mount type. Please consult us for these or further modifications.

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.