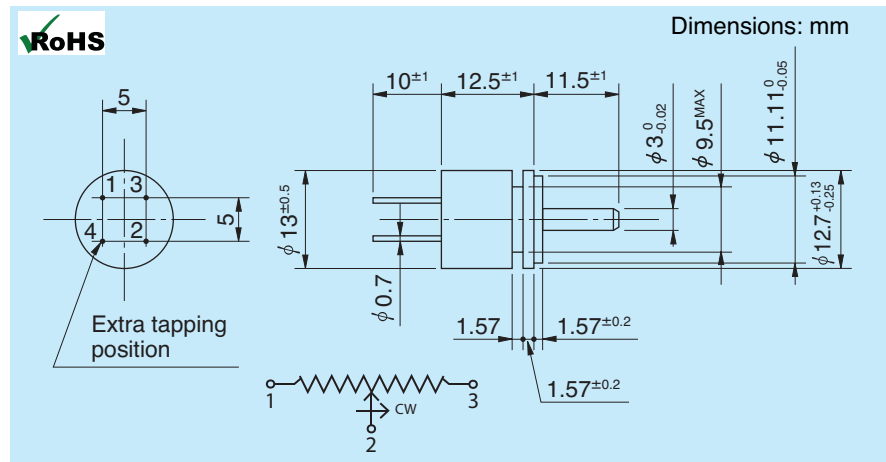


## Single Turn Conductive Plastic Potentiometer

## Series STCS12



### • General Specifications (Note 1)

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

**Resistance Tolerance:** Standard Class ±15%  
Precision Class ±10%

**Independent Linearity Tolerance:** Standard Class ±2.0%  
Precision Class ±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°C ~ +105°C (Note 1)

**Contact Resistance Variation:**

Below 3% C.R.V.

**Power Rating:**

0.2W @ 70°C (0W @ 105°C)

**Electrical Travel:**

300° ±5°

**Mechanical Travel:**

360° (continuous)

**Insulation Resistance:**

> 1000M ohms @ 500 VDC

**Dielectric Strength:**

1 minute @ 500 VAC

**Starting Torque:**

< 2mN·m (20gf·cm)

**Temperature Coefficient:**

±400p.p.m / °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° and stopper strength is 0.3N·m [3kgf·cm]), Special electrical travel, Shaft dia. (∅3.175mm), 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°C ~ +35°C. Specifications subject to change without notice.