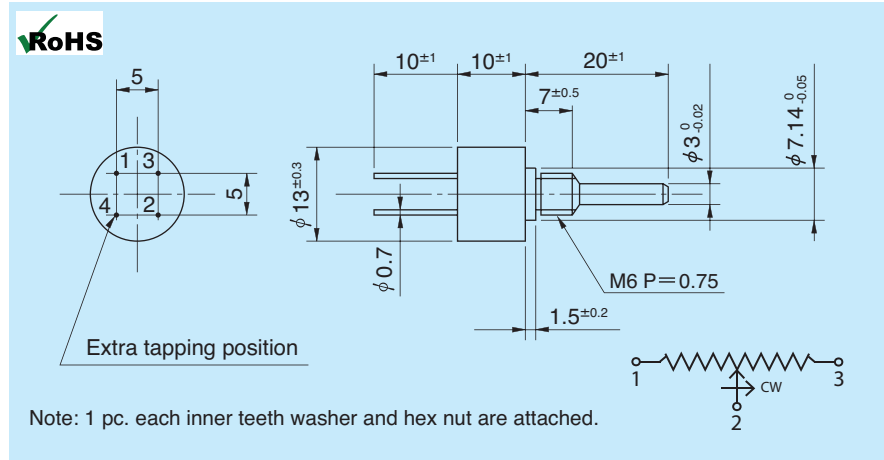


## Single Turn Conductive Plastic Potentiometer

## Series STC12 STC12S



### • Standard Model Nos.

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

### • General Specifications (Note 1)

<b>Resistance Values (<math>\Omega</math>):</b>	500, 1K, 2K, 5K, 10K, 20K 50K, 100K	<b>Contact Resistance Variation:</b>	Below 3% C.R.V.
<b>Resistance Tolerance:</b>	Standard Class $\pm 15\%$ Precision Class $\pm 10\%$	<b>Power Rating:</b>	0.2W @ 70°C (0W @ 105°C)
<b>Independent Linearity Tolerance:</b>	Standard Class $\pm 2.0\%$ Precision Class $\pm 1.0\%$	<b>Electrical Travel:</b>	300° $\pm 5^\circ$
<b>Resolution:</b>	Essentially Infinite	<b>Mechanical Travel:</b>	360° (continuous)
<b>Output Smoothness:</b>	Below 0.1% against input voltage	<b>Insulation Resistance:</b>	> 1000M ohms @ 500 VDC
<b>Rotational Life:</b>	5,000,000 shaft revolutions (no load)	<b>Dielectric Strength:</b>	1 minute @ 500 VAC
<b>Protection Grade:</b>	IP40	<b>Starting Torque:</b>	< 2mN·m (20gf·cm)
<b>Operating Temperature:</b>	-55°C ~ +105°C (Note 1)	<b>Temperature Coefficient:</b>	$\pm 400$ p.p.m / °C
		<b>Vibration:</b>	15G / 10Hz to 2,000Hz
		<b>Shock:</b>	50 G / 11ms
		<b>Mass:</b>	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 0.3N·m [3kgf·cm]), Special electrical travel, Shaft dia. ( $\varnothing 3.175$ mm)•bushing with inch dimensions, Special machining on the 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.