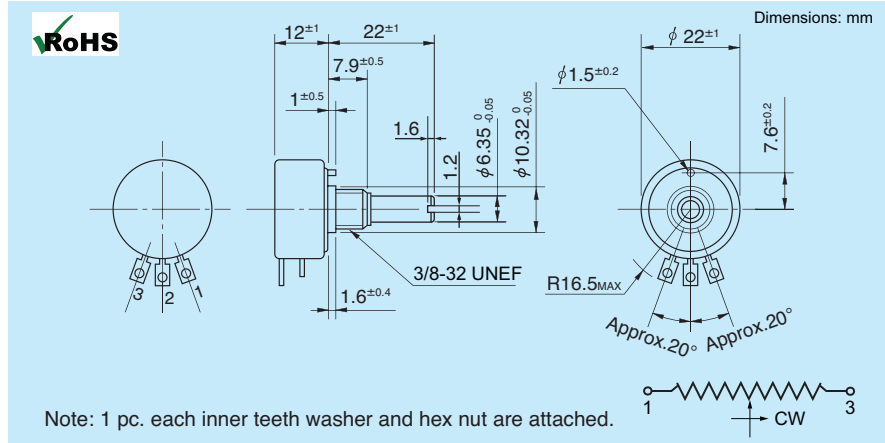


STW22E Series

Single Turn Potentiometer (Wirewound)



• Model Nos.

- STW22E (without stop, continuous)
- STW22ES (with stop)

• General Specifications (Note 1)

Resistance Values (Ω): 50, 100, 200, 500, 1K, 2K
5K, 10K, 20K

Total Resistance

Tolerance: Standard Class $\pm 3\%$
Precision Class $\pm 1\%$

Independent Linearity

Tolerance: Standard Class $\pm 0.5\%$
Precision Class $\pm 0.25\%$
($\pm 0.35\%$ in case of below 1k Ω)

Power Rating: 0.5W @ 70°C (0W @ 105°C)

Rotational Life: 500,000 shaft revolutions (no load)

Protection Grade: IP40 (IP54 optional)

Operating Temperature: -55° to +105°C (Note 1)

Noise: Below 100 μ E.N.R.

Electrical Travel: STW22E 355° $\pm 5^\circ$
STW22ES 320° $\pm 5^\circ$

Mechanical Travel: STW22E 360° (continuous)
STW22ES 320°

Insulation Resistance: Over 1,000M Ω at 1,000V.D.C.

Dielectric Strength: 1 minute at 1,000V.A.C.

Starting Torque: Below 5mN·m (50gf·cm)

Temperature

Coefficient of Wire: ± 20 p.p.m./°C

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

Shock: 50 G / 11ms

Mass: Approx. 20g

• Resolution Chart

Resist. Value (Ω)	50	100	200	500	1k	2k	5k	10k	20k
Resolution (%)	0.33	0.27	0.21	0.22	0.18	0.14	0.10	0.08	0.06
Resist. Wire Used	Cu-Ni System				Ni-Cr System				

• Special Specifications Available

Lower resistance values (10 Ω , 20 Ω), Extra taps (Available up to 1 tap), Shaft with front and rear extension (Rear shaft with 6mm dia. and 20mm length), Multi-ganged (Available up to 10 gangs), With stopper (Rotating angle becomes 320° and stopper strength is 0.6N·m [6kgf·cm]), Special electrical travel, Special shaft machining.

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