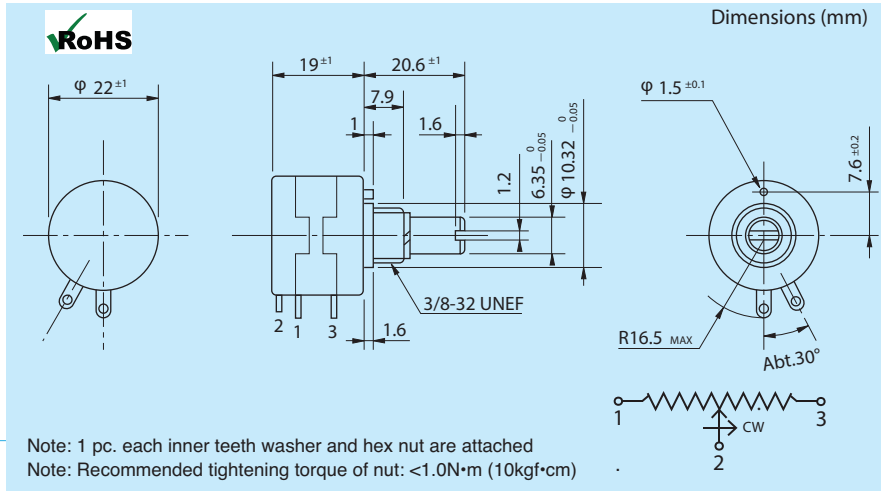


# MT22 Series

## Multi-Turn Potentiometer (Wirewound)



### Standard Model Nos.

MT22-5 (5-turn)  
MT22-10 (10-turn)

### General Specifications

**Standard Resistance Range:** 100, 200, 500, 1k, 2k, 5k, 10k Ω

**Max. Practical Resistance Value:** 20k Ω (5-turn)  
50k Ω (10-turn)

**Total Resistance Tolerance:** Standard Class ±5%  
Precision Class ±1%

**Independent Linearity Tolerance:**

	5-turn	10-turn
Standard Class	±0.3%	±0.25%
Precision Class	±0.2%	±0.1%
	(< 5k Ω) (±0.25%)	(±0.15%)

**Power Rating:** 1.0W (5-turn)  
2.0W (10-turn)

**Noise:** Within 100 Ω E.N.R.

**Electrical Travel:** 360° × n ±5° (n: No. of turns)

**Mechanical Travel:** 360° × n  $\begin{matrix} +30^\circ \\ -0^\circ \end{matrix}$  (n: No. of turns)

**Rotational Life:** 500,000 (5-turn)  
1,000,000 (10-turn)

**Protection Grade:** IP40 (IP54 optional)

**Operating Temp.:** -55°C...+105°C

**Insulation Resistance:** Over 1000M Ω at 500V.D.C.

**Dielectric Strength:** 1 minute at 1000V.A.C.

**Starting Torque:** Within 10mN·m (100gf·cm)

**Stopper Strength:** Approx. 0.35N·m (3.5kgf·cm)

**Resist. Temperature Coefficient of Wire:** ±20p.p.m./°C

**Vibration:** 15G / 10Hz to 2,000Hz 12 hours

**Shock:** 50G / 11ms 18 times

**Mass:** Approx. 20g

### Resolution Chart (%)

Resist. Value (Ω)	100	200	500	1k	2k	5k	10k	20k	50k	
MT22-5	0.08	0.06	0.05	0.04	0.042	0.031	0.026	0.021	0.018	
MT22-10	0.05	0.04	0.03	0.025	0.02	0.02	0.016	0.013	0.01	
Resist. Wire Used	Cu-Ni System					Ni-Cr System				

### Special Specifications Available

3-turn type (MT22-3), extra tap (1 tap, 10 turn only), multi-ganged (up to 10 gangs, housing length extended by 19mm per gang), high torque, shaft with front and rear extension (rear shaft with 6mm dia. and 15mm length), special shaft machining (flat, pin hole, length, dia., etc.), sealed housing and o-ring shaft seal for IP54 protection grade (torque increases), slipping clutch (20mN·m~60mN·m), 1, 2, 4, 6, 7 or 8 turn versions.