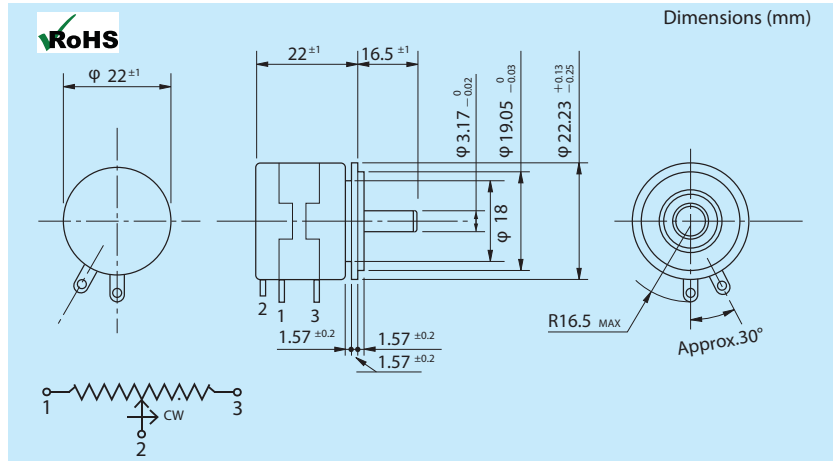


MT22S Series

Multi-Turn Potentiometer (Wirewound)



Standard Model Nos.

MT22S-5 (5-turn)
MT22S-10 (10-turn)

General Specifications (Note 1)

Standard Resistance Range:	100, 200, 500, 1k, 2k, 5k, 10k Ω	Noise:	Within 100 Ω E.N.R.
Max. Practical Resistance Value:	20k Ω (5-turn) 50k Ω (10-turn)	Electrical Travel:	360° × n ± 5° (n: No. of turns)
Total Resistance Tolerance:	Standard Class ±5% Precision Class ±1%	Mechanical Travel:	360° × n +30° -0° (n: No. of turns)
Independent Linearity Tolerance:	Standard Class ±0.3% (5-turn) ±0.2% (10-turn) Precision Class ±0.2% (< 5k Ω) (±0.25%) (±0.15%)	Rotational Life:	500,000 (5-turn) 1,000,000 (10-turn)
Power Rating:	1.0W (5-turn) 2.0W (10-turn)	Protection Grade:	IP40
		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)
		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	
MT22S-5	0.08	0.06	0.05	0.04	0.042	0.031	0.026	0.021	0.018	
MT22S-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 (MT22S-3), extra tap (1 tap, 10 turn only), multi-ganged (up to 10 gangs, housing length extended by 19mm per gang), shaft with front and rear extension (rear shaft, 15mm length), special shaft machining (flat, pin hole, length, dia., etc.)