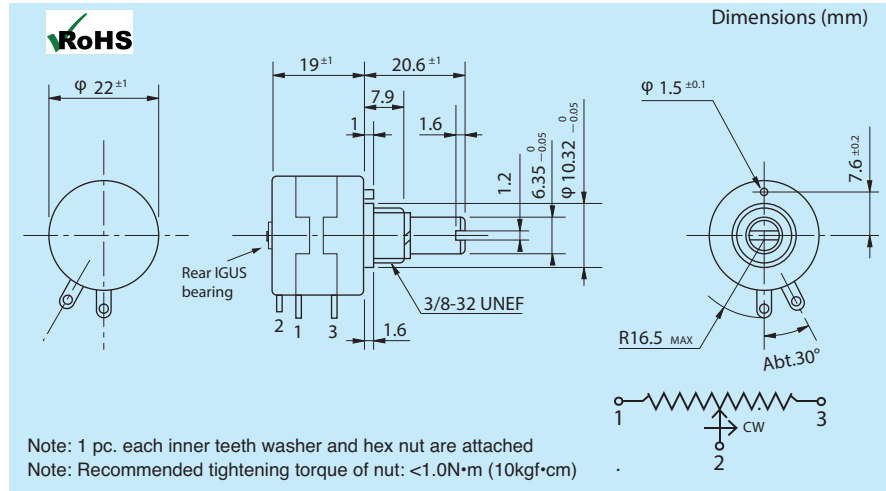


MT22IR Series

Multi-Turn Potentiometer (Wirewound / Slip clutch / Rear Bearing)



Standard Model Nos.

MT22IR-5	(5-turn)
MT22IR-10	(10-turn)

General Specifications (Note 1)

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 ^{+30°}/_{-0°} (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)

Slipping Torque: 20mN·m ~ 60mN·m

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	
MT22IR-5	0.08	0.06	0.05	0.04	0.042	0.031	0.026	0.021	0.018	
MT22IR-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 (MT22IR-3), extra tap (1 tap, 10 turn only), multi-ganged (up to 10 gangs, housing length extended by 19mm per gang), high torque, special shaft machining (flat, pin hole, length, dia., etc.), sealed housing and o-ring shaft seal for IP54 protection grade (torque increases), 1, 2, 4, 6, 7 or 8 turn versions.

Note 1: Customers should test and verify device performance in any given application. Specifications subject to change without notice.