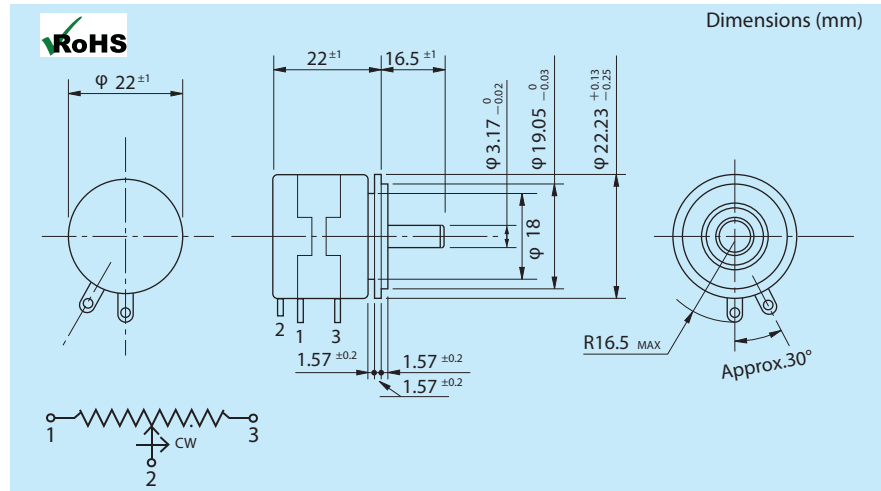


Multi-Turn Hybrid Potentiometer

Series MT22HS



Standard Model Nos.

MT22HS-5 (5-turn)
MT22HS-10 (10-turn)

General Specifications (Note 1)

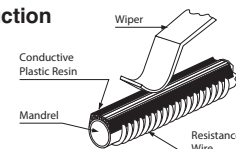
Standard Resistance Range:	1k, 2k, 5k, 10k, 20k, 50k Ω									
Max. Practical Resistance Value:	100k Ω (10-turn)									
Total Resistance Tolerance:	Standard Class ±10% Precision Class ±5%									
Independent Linearity Tolerance:	<table border="0"> <tr> <td></td> <td>5-turn</td> <td>10-turn</td> </tr> <tr> <td>Standard Class</td> <td>±0.35%</td> <td>±0.25%</td> </tr> <tr> <td>Precision Class</td> <td>±0.2%</td> <td>±0.1%</td> </tr> </table>		5-turn	10-turn	Standard Class	±0.35%	±0.25%	Precision Class	±0.2%	±0.1%
	5-turn	10-turn								
Standard Class	±0.35%	±0.25%								
Precision Class	±0.2%	±0.1%								
Power Rating:	1.0W (5-turn) 2.0W (10-turn)									
Output Smoothness:	Within 0.05% against input voltage (5-turn) Within 0.015% against input voltage (10-turn)									
Contact Resistance Variation:	Within 5% C.R.V. (5-turn) Within 3% C.R.V. (10-turn)									

Electrical Travel:	360° × n ±5° (n: No. of turns)
Mechanical Travel:	360° × n $\begin{matrix} +10^\circ \\ -0^\circ \end{matrix}$ (n: No. of turns)
Rotational Life:	2,500,000 (5-turn) 5,000,000 (10-turn)
Protection Grade:	IP40 (IP54 optional)
Operating Temp.:	-55°C...+105°C
Insulation Resistance:	Over 100M Ω at 500V.D.C.
Dielectric Strength:	1 minute at 1000V.A.C.
Starting Torque:	Within 5mN·m (50gf·cm)
Resist. Temperature Coefficient of Wire:	±100p.p.m./°C
Vibration:	15G / 10Hz to 2,000Hz 12 hours
Shock:	50G / 11ms 18 times
Mass:	Approx. 20g

Features of Hybrid resistive element

- Main Features**
 - Good stability of resistance value
 - Good resistance temperature coefficient
 - Essentially infinite resolution
 - Less resistance variation
 - Long life expectancy

Construction



Special Specifications Available

3-turn type (MT22HS-3), extra tap (1 tap, 10 turn only), multi-ganged (up to 10 gangs, housing length extended by 19mm per gang), special shaft machining (flat, pin hole, length, dia., etc.)

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.