


LMO Series

Linear Motion Potentiometer (Conductive Plastic Element)



- Open Frame - Economical
- Shaftless - Sliding Cursor
- 100, 150 & 200mm Stroke Length
- 5,000,000 Stroke Life
- Infinite Resolution
-  RoHS

Electrical Data (Note 1)	Model	LMO-100	LMO-150	LMO-200
Electrical Stroke		100 ±0.3mm	150 ±0.3mm	200 ±0.3mm
Standard Resistance Values		5k Ω	7.5k Ω	10k Ω
Power Rating @ 70°C (0W @ 105°C)		50 mW	75 mW	100 mW
Resistance Tolerance		30%		
Independent Linearity Tolerance		1%		
Resolution		Essentially infinite		
Output Smoothness		< 0.1% against input voltage		
Resistance Temperature Coefficient		±400p.p.m./°C		
Recommended Wiper Current		< 1μA (voltage divider circuit)		
Maximum Wiper Current		< 1mA		

Mechanical Data (Note 1)	Model	LMO-100	LMO-150	LMO-200
Mechanical Stroke*		105.3 ±0.3mm	154.3 ±0.3mm	205 ±0.3mm
Life Expectancy		5,000,000 reciprocating motions		
Friction (Starting Torque)		< 1 N		
Vibration (IEC 68-2-6)		10 G (55....2000 Hz, 0.75mm, 12h)		
Shock (IEC 68-2-27)		50 G (half sine, 11ms (18x))		
Maximum Displacement Speed		0.5 m/s		
Operating Temperature		-30°C to +85°C		
Protection Grade		IP40		
Housing Material		Aluminum		
Cursor Material		POM		
PCB Substrate		FR4 TG>150°		

*There are no mechanical stoppers at the ends, please be careful so that the sliding wiper contact does not leave the element track.

• Special Specifications Available

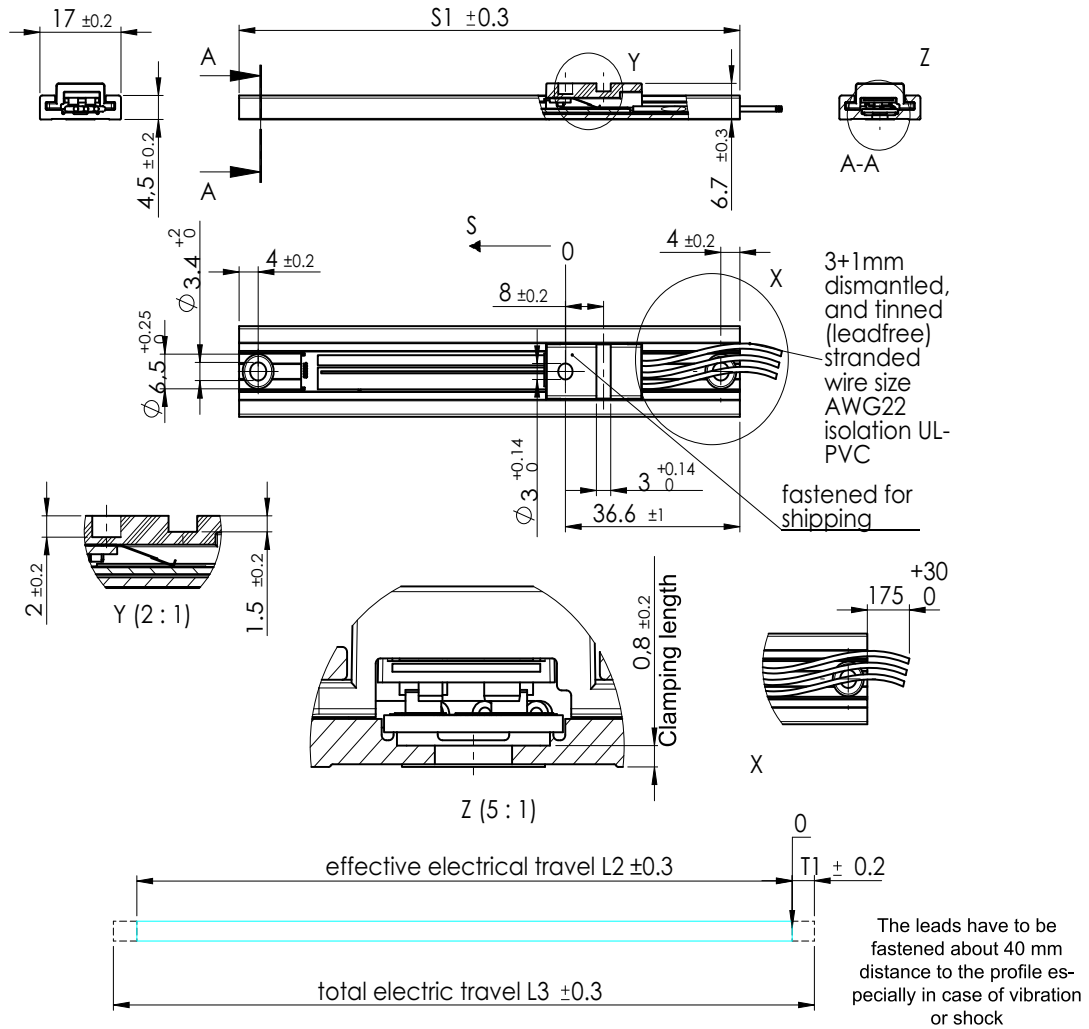
Non-standard resistance values, custom stroke lengths. Custom cabling. 50mm version: LMO 50 R2.5K

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

LMO Series

Linear Motion Potentiometer (Conductive Plastic Element)

Dimensions (mm)



Rev.	Title	S1	L2	L3	T1	Total Resistance	ind. Lin.
00	LMO 50	105	50	62	3.15	2.5kOhm $\pm 30\%$	$\leq \pm 1\%$
00	LMO 100	150	100	105.5	3.15	5kOhm $\pm 30\%$	$\leq \pm 1\%$
00	LMO 150	200	150	154.5	3.15	7.5kOhm $\pm 30\%$	$\leq \pm 1\%$
00	LMO 200	250	200	205	3.15	10kOhm $\pm 30\%$	$\leq \pm 1\%$

