

LMO Series

Linear Motion Potentiometer (Conductive Plastic Element)



- **Open Frame - Economical**
- **Shaftless - Sliding Cursor**
- **50, 100, 150 & 200mm Stroke**
- **Length 5,000,000 Stroke Life**
- **Infinite Resolution**
- **RoHS**

Electrical Dat	Model	LMO-50	LMO-100	LMO-150	LMO-200
Electrical Stroke		50 ±0.3mm	100 ±0.3mm	150 ±0.3mm	200 ±0.3mm
Standard Resistance Values		2.5k Ω	5k Ω	7.5k Ω	10k Ω
Power Rating @ 70°C (0W @ 105°C)		25 mW	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	Model	LMO-50	LMO-100	LMO-150	LMO-200
Mechanical Stroke*		62 ±0.3mm	105.5 ±0.3mm	154.5 ±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.

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

