


LMC15 / LMCR15 Series

Linear Motion Potentiometer (Conductive Plastic Element)



- Front and Rear Shaft
- 10, 15, 20 and 30mm Stroke Lengths
- Spring Return Option (spring internal)
- 20,000,000 Stroke Life
- Infinite Resolution
-  **RoHS**

Electrical Data (Note 1)	Model	LMC15-10	LMC15-15	LMC15-20	LMC15-30
Electrical Stroke		10±0.5mm	15±0.5mm	20±0.5mm	30±0.5mm
Standard Resistance Values		500,1k, 2k, 5k, 10k Ω			
Resistance Tolerance		±10%			
Independent Linearity Tolerance (standard)		±2.0%	±1.0%		
Independent Linearity Tolerance (optional)		±1.0%	±0.5%		
Power Rating @ 70°C		0.2W	0.3W	0.4W	0.5W
Resolution		Essentially infinite			
Output Smoothness		< 0.1% against input voltage			
Resistance Temperature Coefficient		±400 p.p.m/°C			
Insulation Resistance		> 1,000M Ω at 500VDC			
Dielectric Strength		1 minute at 1,000VAC			

Mechanical Data (Note 1)	Model	LMC15-10	LMC15-15	LMC15-20	LMC15-30
Mechanical Stroke		10 ⁺² ₀ mm	15 ⁺² ₀ mm	20 ⁺² ₀ mm	30 ⁺² ₀ mm
Life Expectancy		20,000,000 reciprocating motions			
Friction (without spring)		< 0.3N (30gf)			
Friction (with spring, LMCR)		< 3.0N (300gf)			
Stopper Strength		Approx. 20N (2kgf)			
Operating Temperature		-30°C to +105°C			
Vibration		15G / 10Hz to 2,000Hz 12 hours			
Shock		50G, 11ms 18 times			
Protection Grade		IP40 (IP54 option)			
Housing Material		Plastic			
Shaft Material		Stainless steel			
Weight		approx. 30g			

• Special Specifications Available

Special shaft machining, non-standard resistance values, custom cabling, IP54 sealing (friction increases)

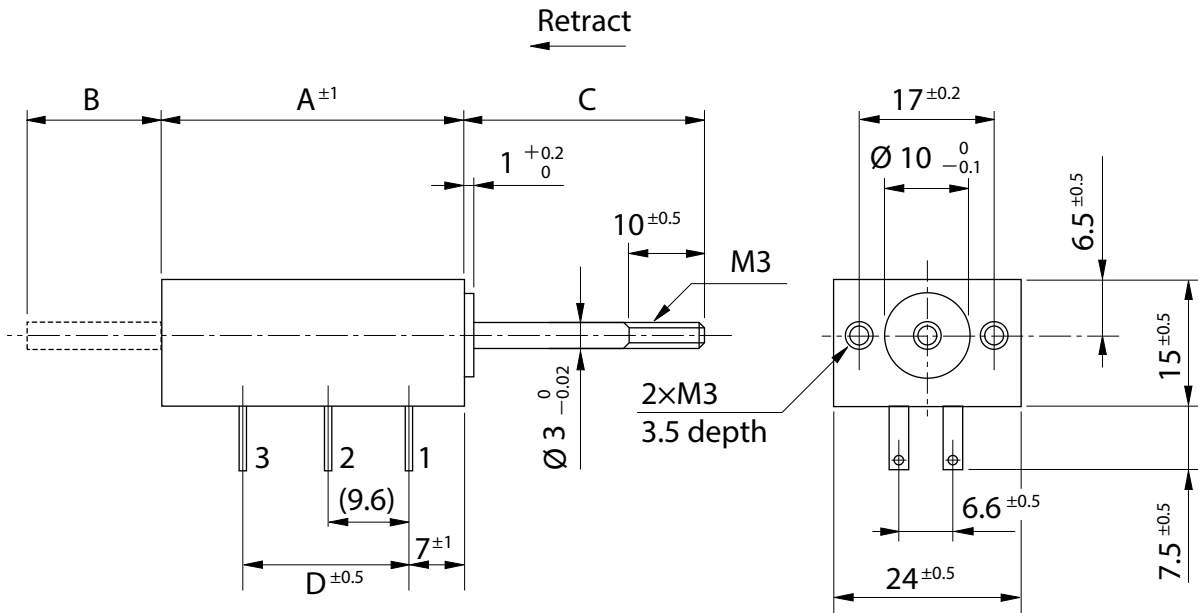
Customers should test and verify device performance in any given application. Specifications are subject to change without notice.

LMC15 / LMCR15 Series

Linear Motion Potentiometer
(Conductive Plastic Element)



Dimensions (mm)



Model	Dimension A	B		C		D
		Retracted	Extended	Retracted	Extended	
LMC(R)15-10	37	11	0	15	26	20
LMC(R)15-15	37	16	0	15	31	20
LMC(R)15-20	52	21	0	15	36	35
LMC(R)15-30	52	31	0	15	46	35

