

Linear Motion Conductive Plastic Potentiometer

RoHS

Series LMC8 (w/out spring return) LMCR8 (w/spring return)

Dimensions (mm)



Standard Model Nos.

LMC8-8 (8mm stroke without spring) LMCR8-8 (8mm stroke with spring return) LMC8-11 (11mm without spring) LMCR8-11 (11mm with spring return) LMC8-12 (12mm stroke without spring) LMCR8-12 (12mm with spring return)

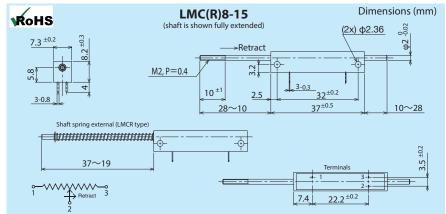


Standard Model Nos. LMC8-15 (15mm stroke without spring) LMCR8-15 (15mm stroke with spring return)

8mm stroke $10\sim19$ 19~10 8mm stroke 11mm stroke 10~22 22~10 11mm stroke $7.3^{\pm0.2}$ 12mm stroke 10~24 32 ±0.5 24~10 12mm stroke 0.02 25.4 $^{\pm0.2}$ 3.3 φ2 Retract 2× Ψ 2.36 hole Ø 0.8 insulated lead wires 150 ±5 length 3 (green) 1 (yellow) 2(red) Shaft spring internal (LMCR type)

LMC(R)8-8,11,12

(shaft is shown fully retracted)



General Specifications (Note 1)

Resistance Values: 1k, 2k, 5k, 10k, 20k, 50k Ω

Standard Class ±15% Resistance Tolerance:

Precision Class ±10% Standard Class ±2.0%

Linearity Tolerance: Precision Class ±1.0%

Essentially infinite Resolution:

Output Smoothness: Within 0.1% against input voltage

Contact Resistance

Within 2% C.R.V. Variation:

Temperature

USA

±400p.p.m./°C Coefficient:

0.2W (< 15mm stroke length) **Power Rating:**

0.3W (15mm stroke length)

Operating Temperature: -30°C ~ +105°C

20,000,000 reciprocating motions Life Expectancy:

Protection Grade: IP40 (IP54 option)

8 ±0.5mm (LMC8-8 / LMCR8-8) **Electrical Stroke:**

11 ±0.5mm (LMC8-11 / LMCR8-11) 12 ±0.5mm (LMC8-12 / LMCR8-12) 15 ±0.5mm (LMC8-15 / LMCR8-15)

About 9mm (LMC8-8 / LMCR8-8) **Mechanical Stroke:**

> About 12mm (LMC8-11 / LMCR8-11) About 14mm (LMC8-12 / LMCR8-12) About 18mm (LMC8-15 / LMCR8-15)

Insulation Resistance: Over 1,000 M Ω at 500VDC

Dielectric Strength: 1 minute at 500V.A.C.

< 0.5N (50gf) without spring return Friction:

< 4N (400gf) with spring return

Stopper Strength: Approx. 10N (1kgf)

15G / 10Hz to 2,000Hz 12 hours Vibration:

Shock: 50G / 11ms 18 times

Mass: Approx. 5g

Special Specifications Available

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

Note 1: Customers should test and verify device performance in any given application. General specifications values are measured at temperatures of $+15^{\circ}$ C $\sim +35^{\circ}$ C. Specifications are subject to change without notice.

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