

Product Specification

Number: L-KLS4-3296X

Name: Cermet Potentiometer

Customer: _____

Date: 2026-01-06

Customer Signature:



NINGBO KLS ELECTRONIC CO; LTD

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Compi	Check	Review	Approva
Jenny	Jack.C		

Part name	Cermet Potentiometer	Date	2026-01-06
Part number	L-KLS4-3296X	Edition	V1
Department		Page	3 / 6

■ Features:

- Utilizes a glass glaze resistor element with high rated power.
- Fully enclosed structure for superior overall performance.
- Compact size, space-saving for high-density installation.
- Worm gear drive mechanism for fine adjustment.
- Outstanding heat and moisture resistance.

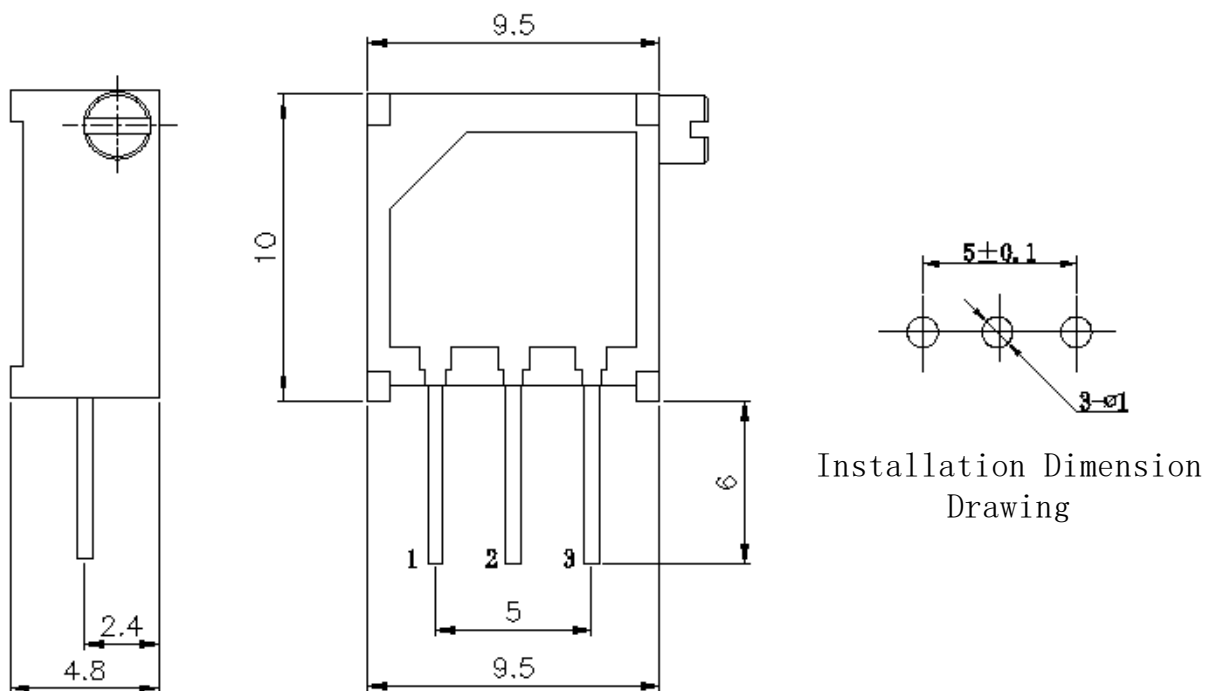
■ Purpose

- Various instruments and meters

■ Recommended installation method: Insert the potentiometer lead into the printed circuit board, stick it tightly, and solder it firmly with tin

1. The appearance and installation dimensions are shown in the following figure

3296X



Part name	Cermet Potentiometer	Date	2026-01-06
Part number	L-KLS4-3296X	Edition	V1
Department		Page	4 / 6

Electrical Performance

- 2.1 Nominal Resistance Range: $10\ \Omega \sim 5M\ \Omega$
- 2.2 Resistance Tolerance: $\pm 10\%$
- 2.3 Resistance Taper: Type A (Linear)
- 2.4 Rated Power (at 70°C): 0.5W
- 2.5 Contact Resistance Variation (CRV): $\leq 3\%R$ or $5\ \Omega$ (whichever is greater)
- 2.6 Resistance Temperature Coefficient (RTC): $\leq \pm 200 \times 10^{-6}/^\circ\text{C}$
($-55^\circ\text{C} \sim +125^\circ\text{C}$)
- 2.7 Terminal Resistance (at electrical zero): $\leq 10\ \Omega$ (for $100\ \Omega \leq R \leq 1k\ \Omega$);
 $\leq 1\%R$ (for $R > 1k\ \Omega$)
- 2.8 Stability Grade: 10%
- 2.9 Maximum Working Voltage (Resistor Element): 220 V (DC or AC RMS)
- 2.10 Operating Temperature Range: $-55^\circ\text{C} \sim +125^\circ\text{C}$
- 2.11 Temperature Variation Test: $\Delta R \leq \pm 2\% R$
 $\Delta U_{12} / \Delta U_{13} \leq \pm 1\%$

ORDER INFORMATION

Product NO.: KLS4-3296 X-xxx

Pos. NO. _____

3296:Model _____

Resistance Code _____

X:Style _____

Part name	Cermet Potentiometer	Date	2026-01-06
Part number	L-KLS4-3296X	Edition	V1
Department		Page	5 / 6

KLS4-3296X-102 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 1000 Ω .

KLS4-3296X-103 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 10000 Ω .

KLS4-3296X-104 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 100000 Ω .

KLS4-3296X-105 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 1000000 Ω .

KLS4-3296P-201 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 200 Ω .

KLS4-3296P-202 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 2000 Ω .

KLS4-3296P-203 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 20000 Ω .

KLS4-3296X-204 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 200000 Ω .

KLS4-3296X-502 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 5000 Ω .

KLS4-3296X-503 Multiturn Turn Cermet Potentiometer, 3296X Type, Resistance Tolerance $\pm 10\%$, Resistance 50000 Ω .

Part name	Cermet Potentiometer	Date	2026-01-06
Part number	L-KLS4-3296X	Edition	V1
Department		Page	6 / 6

Mechanical Performance

3.1 Total Mechanical Travel: (28 ± 2) Circle

3.2 Starting Torque: $\leq 35 \text{ mN} \cdot \text{m}$

3.3 Solderability:

* Solder bath at $235^\circ \text{C} \pm 5^\circ \text{C}$

* Dip duration: $2\text{s} \pm 0.5\text{s}$

* Requirement: Wetting coverage $>90\%$ on terminations after removal from solder bath.

4. Power reduction curve

