

# Product Specification

Number: L-KLS9-0120-LED-3-GR

Name: LEDs

Specification: \_\_\_\_\_

Customer: A05

Date: 2024-04-28

Customer Signature:



[WWW.KLSELE.COM](http://WWW.KLSELE.COM)

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Compile	Check	Review	Approval
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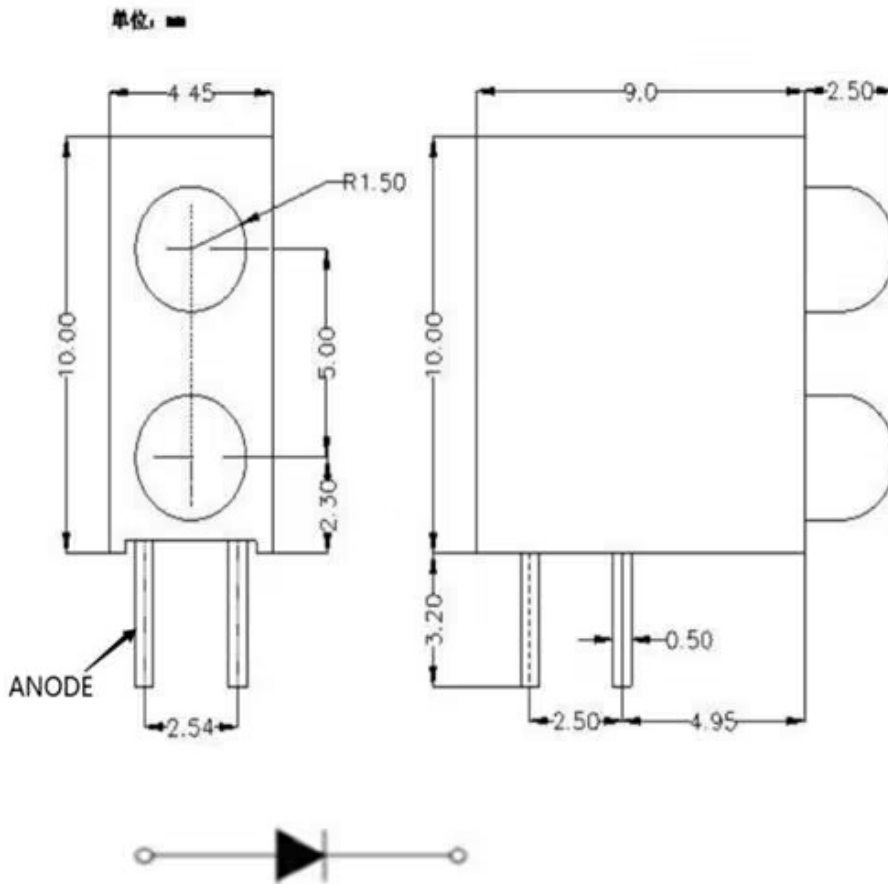
# NINGBO KLS ELECTRONIC CO; LTD

**PART NO:** L-KLS9-0120-LED-3-GR

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**Description:** 3mm Round

**Package Dimensions**



Lens	Material	Emitting Color
Water Clear	InGaN	RedAndGreen

**NOTES**

- All dimensions are in millimeters .
- Tolerance is  $\pm 0.25\text{mm}$  unless otherwise noted.
- Protruded resin under flange is 1.0mm max.
- Lead spacing is measured where the leads emerge from the package.
- Specifications are subject to change without notice.

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## Absolute Maximum Ratings at TA=25°C

Parameter	Maximum Rating	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10Duty Cycle, 0.1ms Pulse Width )	60	mA
DC Forward Current	30	mA
Reverse Voltage	5	V
Operating Temperature Range	-20°C to+80°C	
Storage Temperature Range	-40°C to+100°C	
Lead Soldering Temperature [1.6mm(.063" )From Body]	260°C for 5 seconds	

## Electrical Optical Characteristics at TA=25°C

Parameter	Symbol	Min	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	80		150	mcd	IF=20mA
Viewing Angle	2 θ 1/2		25		deg	
Peak Emission Wavelength	λ p	620		630	nm	IF=20mA
Chromaticity Coordinate	X/Y	565		575	nm	IF=20mA
Spectral Line Half-Width	Δ λ				nm	IF=20mA
Forward Voltage	VF	1.8		2.2	V	IF=20mA
Reverse Current	IR			40	μ A	VR=5v

- Note:**
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates CIE (Commission International Dd L Eclairage)eye-response curve.
  2. θ 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
  3. The chromaticity coordinate,x/y is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
  - 4.The Iv guarantee should be added ± 15%.