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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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0.56" Quadruple Digit Numeric Displays

Technical Data Sheet

Model No.: KW4-56NXWB-P-Y



Features:

- 0.56" (inch) digit height.
- Excellent segment uniformity.
- Sold state reliability.
- Industrial standard size.
- Low power consumption.
- The product itself will remain within RoHS compliant Version.

Descriptions:

- The KW4-56NXXX series is a lager 14.20 mm (0.56") high seven segments display designed for viewing distances up to 7 meters.
- These displays provide excellent reliability in bright ambient light.
- These devices are made with yellow segments and black surface

Applications:

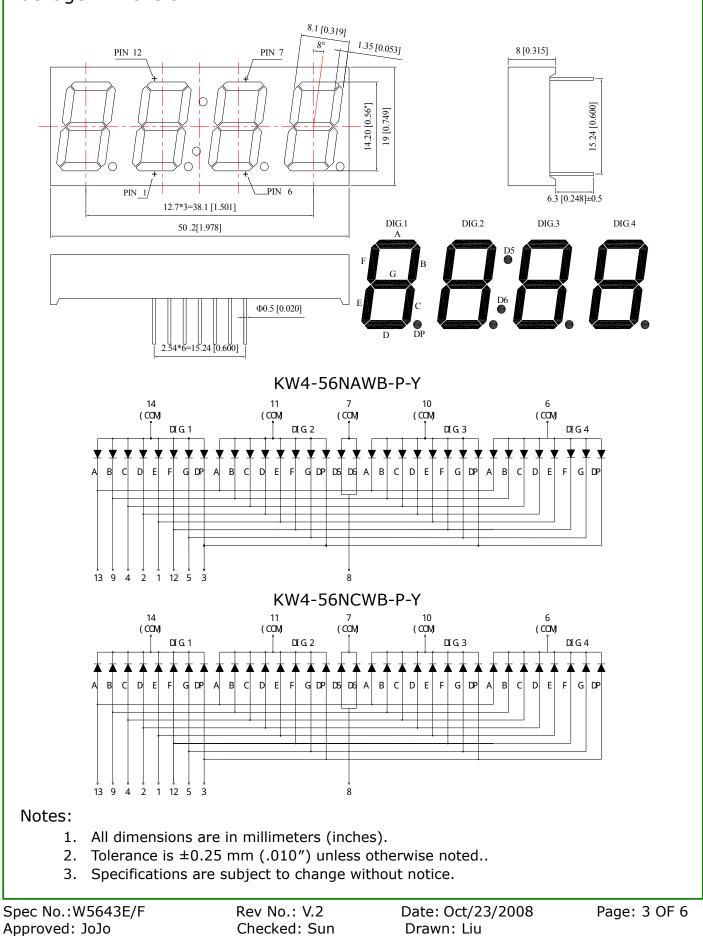
- Audio equipment.
- Instrument panels.
- Digital read out display.

Device Selection Guide:

Model No.	Chip Material	Source Color	Description	
KW4-56NAWB-P-Y		White	Common Anode	
KW4-56NCWB-P-Y	InGaN	White	Common Cathode	



Package Dimension:



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http://www.luckylightled.com



Absolute Maximum Ratings at Ta=25℃

Parameters	Symbol	Max.	Unit		
Power Dissipation Per Segment	PD	100	mW		
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	IFP	100	mA		
Forward Current Per Segment	IF	25	mA		
Dating Linear From 50°C		0.4	mA/°C		
Reverse Voltage	VR	5	V		
Operating Temperature Range	Topr	-40°C to +80°C			
Storage Temperature Range	Tstg	-40°C to +85°C			
Soldering Temperature	Tsld	260°C for 5 Seconds			

Electrical Optical Characteristics at Ta=25°C

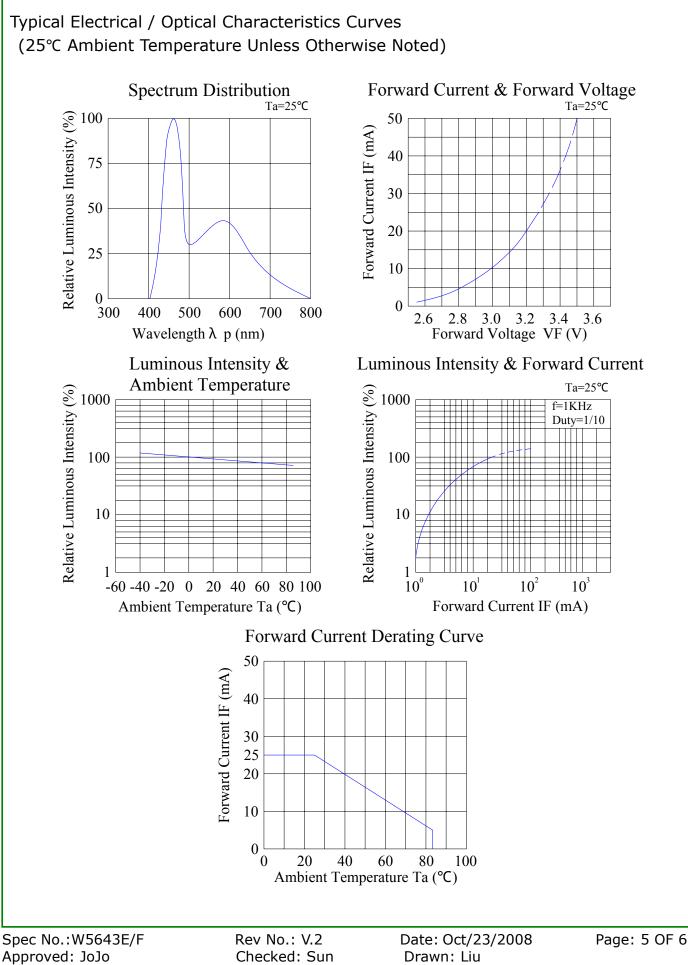
Parameters	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity (Note 1) *	IV	15.0	30.0		mcd	IF=20mA
Luminous Intensity Matching Ratio (Segment To Segment)	I _{v-m}			2:1		IF=10mA
Chromaticity Coordinates (Note 2)	Х		0.28			IF=20mA
	Y		0.29			
Forward Voltage	VF		3.2	4.0	V	IF=20mA
Reverse Current	IR			50	μA	V _R =5V

Notes:

- 1. Luminous Intensity Measurement allowance is \pm 10%.
- 2. It use many parameters that correspond to the CIE 1931 2°. X, Y, and Z are CIE 1931 2° values of Red, Green and Blue content of the measurement.



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Please read the following notes before using the datasheets:

1. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 If the package contains a moisture proof bag inside, please don't open the package before using.

2.2 Before opening the package, the LEDs should be kept at 30 $^\circ C$ or less and 80%RH or less.

2.3 The LEDs should be used within a year.

2.4 After opening the package, the LEDs should be kept at 30 $^\circ C$ or less and 60%RH or less.

3. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 260°C for 5 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

4. Soldering

When soldering, for Lamp without stopper type and must be leave a minimum of 3mm clearance from the base of the lens to the soldering point.

To avoided the Epoxy climb up on lead frame and was impact to non-soldering problem, dipping the lens into the solder must be avoided.

Do not apply any external stress to the lead frame during soldering while the LED is at high temperature.

Recommended soldering conditions:

Soldering Iron		Wave Soldering		
Temperature Soldering Time	300°C Max. 3 sec. Max. (one time only)	Pre-heat Pre-heat Time Solder Wave Soldering Time	100°C Max. 60 sec. Max. 260°C Max. 5 sec. Max.	

Note: Excessive soldering temperature and / or time might result in deformation of the LED lens or catastrophic failure of the LED.

5. Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used . It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.

6. Caution in ESD

Static Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices equipment and machinery must be properly grounded.