

PRELIMINARY SPEC

Part Number: AA3528QR2C/D

Pink



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

**Features**

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

**Description**

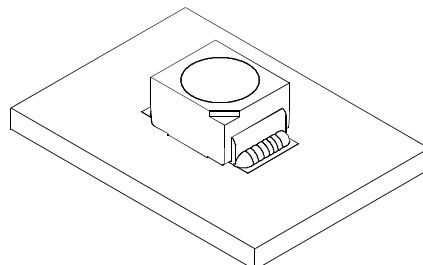
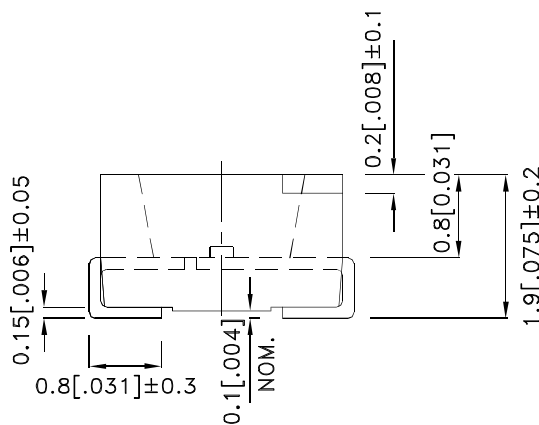
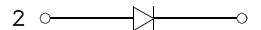
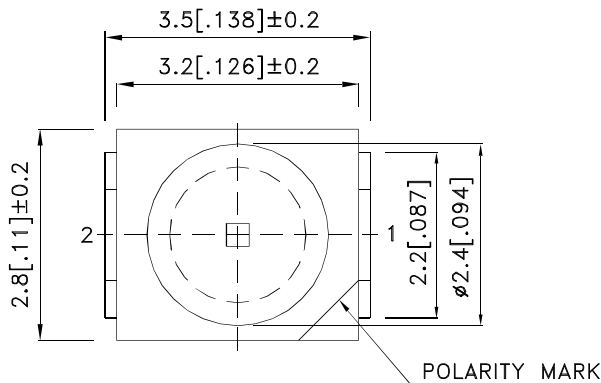
The source color devices are made with InGaN Light Emitting Diode.

Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

**Package Dimensions**



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
AA3528QR2C/D	Pink (InGaN)	WATER CLEAR	110	280	120°

Notes:

- θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
- Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V <sub>F</sub> [1]	Forward Voltage	Pink	3.3	4.0	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Pink		10	μA	V <sub>R</sub> = 5V
x [2]	Chromaticity Coordinates	Pink	0.33			
y [2]			0.20			
C	Capacitance	Pink	100		pF	V <sub>F</sub> =0V;f=1MHz

Notes:

- Forward Voltage: +/-0.1V.
- Measurement Tolerance Of The Chromaticity Coordinates Is ±0.01.

## Absolute Maximum Ratings at TA=25°C

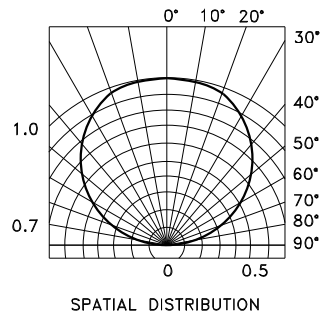
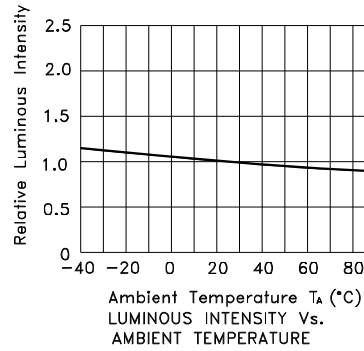
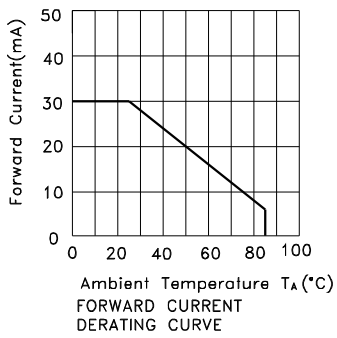
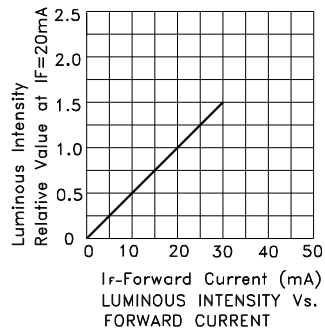
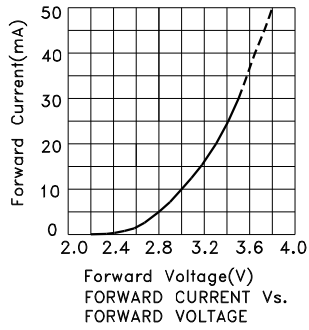
Parameter	Pink	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

Note:

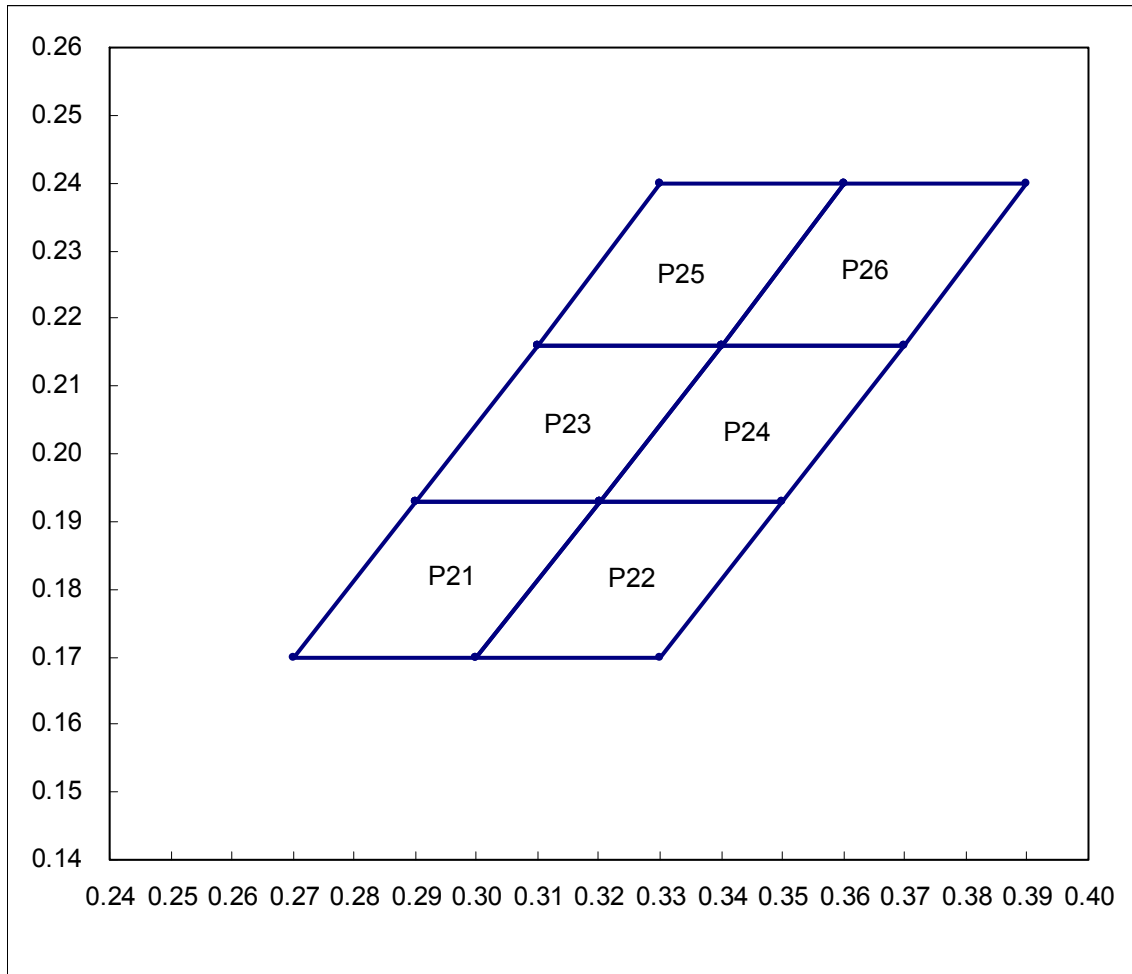
- 1/10 Duty Cycle, 0.1ms Pulse Width.

Pink

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P21				
X	0.330	0.360	0.340	0.310
Y	0.240	0.240	0.216	0.216

P22				
X	0.310	0.340	0.320	0.290
Y	0.216	0.216	0.193	0.193

P23				
X	0.290	0.320	0.300	0.270
Y	0.193	0.193	0.170	0.170

P24				
X	0.360	0.390	0.370	0.340
Y	0.240	0.240	0.216	0.216

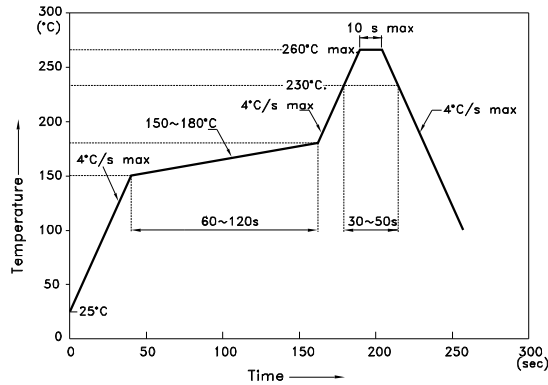
P25				
X	0.340	0.370	0.350	0.320
Y	0.216	0.216	0.193	0.193

P26				
X	0.320	0.350	0.330	0.300
Y	0.193	0.193	0.170	0.170

## AA3528QR2C/D

Reflow soldering is recommended and the soldering profile is shown below.  
Other soldering methods are not recommended as they might cause damage to the product.

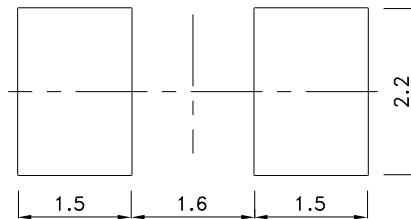
Reflow Soldering Profile For Lead-free SMT Process.



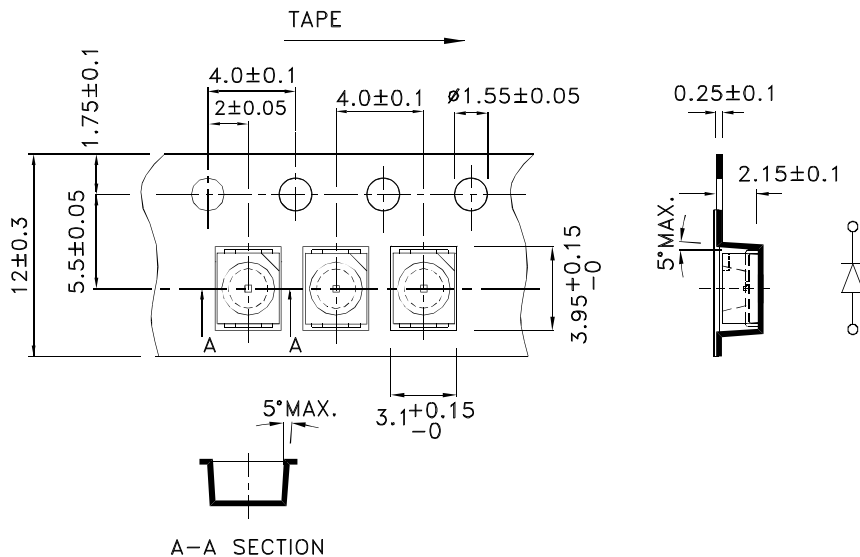
NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

### Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



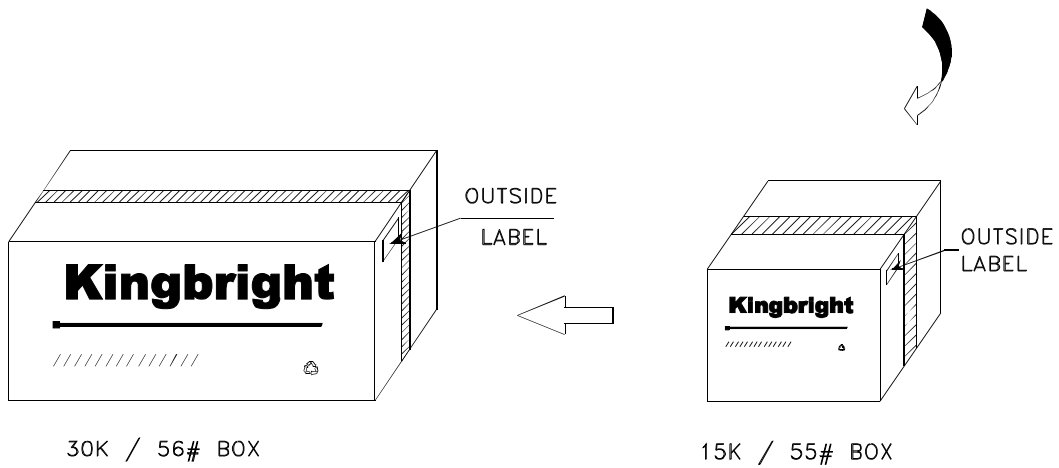
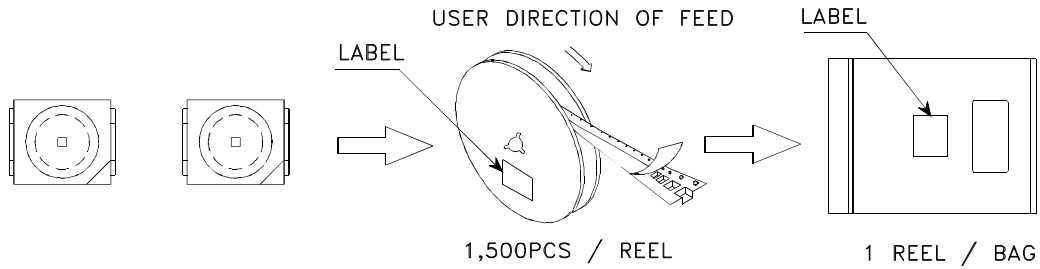
### Tape Dimensions (Units : mm)




# Kingbright

## PACKING & LABEL SPECIFICATIONS

AA3528QR2C/D



<h1>Kingbright</h1>	
P/NO: AA3528xxx	
QTY: 1,500 pcs	Q.C. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Q C XX XX XXXX PASSED</span>
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	