

Dongguan Zhiding Electronics Technology Co., LTD

No.8, Yinling Industry Zone, Xiqiao, Dongcheng District, Dongguan, Guangdong, China

Tel:86-0769-22665151 Fax:86-0769-22665155 Contact: Elsa Xiao Email: sales@zhidingled.com

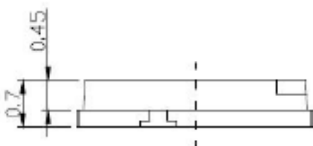
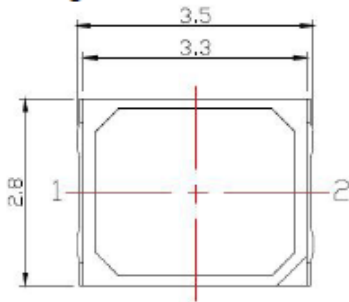
SMD 2835 High CRI White LED Chip - Custom CCT & CRI for Premium Lighting

Most 2835 white LEDs top out at CRI 80. ZHIDINGLED don't.

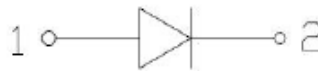
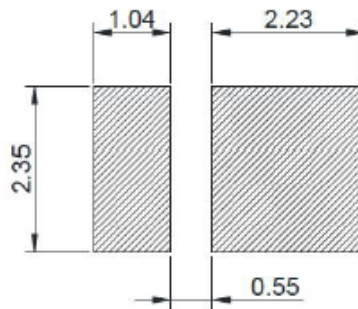
This SMD 2835 High CRI Series goes up to Ra95 and Ra97+, with color temperatures anywhere from 2200K warm white to 12000K ultra-cool white.



Package Dimensions



Recommend Pad Layout



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.25 mm unless otherwise specified.

Both Correlated Color Temperature (CCT) and CRI level are customizable:

CCT Range: 2200K (warm white) → 6500K (neutral white) → up to 12000K cool white

CRI Options: Standard / Ra90 / Ra95 / Ra97+

A good example: we recently built a batch at 9000 - 12000K with Ra95 for a specialty lighting client.

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Luminous Flux	Φ_v	IF = 150 mA	58	63	–	lm
Correlated Color Temperature	CCT	IF = 150 mA	9000	–	12000	K
Color Rendering Index	Ra	IF = 150 mA	95	–	–	–
Forward Voltage	VF	IF = 150 mA	2.9	–	3.2	V
Viewing Angle	2 θ ½	IF = 150 mA	–	120	–	deg
Forward Current	IF	–	–	150	200	mA
Reverse Voltage	VR	–	–	–	5	V
Operating Temp.	Topr	–	–40	–	+80	°C
Storage Temp.	Tstg	–	–40	–	+85	°C

It's the kind of LED we recommend when color accuracy actually matters—retail displays, galleries, architectural installs, or any project where “almost right” isn't good enough.

And unlike suppliers who only sell you chips, we also run in-house PCBA, so you can go straight from custom LED spec to finished module without adding another vendor to the chain.

As a Dongguan-based LED packaging manufacturer since 2009, ZHIDINGLEDD produce over 80 million pcs of SMD LEDs monthly and support custom binning upon request. Samples of High CRI 2835 (Ra95 / Ra97) are available from stock for evaluation.

OUR COMPANY

Dongguan Zhiding Electronics Technology Co., Ltd

Dongguan Zhiding Electronics Technology Co., Ltd was formally established in 2009. The production base is located in Zhaoqing Lineng industrial park, specializing in the production and sale of high-quality LED light emitting diode and other LED related products.

We rely on the industry's senior talent advantage, perfect manufacturing technology, reliable production technology, intimate and quick after-sales service, is committed to creating a world famous brand.



OUR FACTORY



Some questions you may want to know:

1. What does "high CRI" mean in the SMD 2835 light-emitting diode?
CRI (Color Rendering Index) is used to measure the accuracy of a light source in presenting colors, and its value is compared with that of natural light. The standard 2835 light-emitting diode typically has a CRI of around 80. Our high CRI SMD 2835 light-emitting diodes come in models Ra90, Ra95, and Ra97+, which are suitable for scenarios such as retail, art, and architectural lighting that require color accuracy.

2. Do you offer 2835-type LEDs with rich R9 color values and high color rendering index?

Yes. In addition to the high Ra value, we can also optimize the performance of R9 (saturated red presentation). High R9 is crucial for skin tones, artworks, and food displays, especially in museums, galleries, and high-end commercial lighting environments.

3. What is LED classification? How is it controlled?

LED classification refers to classifying LEDs based on luminous flux, voltage, and color. We implement strict classification control to ensure that the brightness, color temperature (CCT), and forward voltage of each batch of products remain consistent, which is crucial for achieving uniform lighting effects.

4. Do you provide PCBA services for SMD 2835 LED modules?

Yes. We offer internal PCBA assembly services, including:

Custom LED module design

Aluminum PCB / FR4 / flexible PCB

Surface mount technology assembly and reflow soldering

Electrical and photometric testing

This enables you to purchase LED chips + modules + components from a single supplier.

5. Are your high color rendering index 2835 type LEDs suitable for dimming systems?

Yes. Our 2835 high color-similarity light-emitting diode is compatible with most constant current LED drivers and dimming systems, including transistor-based, 0-10V and DALI dimming methods, depending on the choice of the driver.

WELCOME TO CONTACT US>>>>WWW.ALLIGHTLED.COM



Oversea Sales Manager

Elsa Xiao

E-mail:sales@allightled.com

Mobile: 86-13412570091

WhatsApp: 86-13412570091

Tel: 86-769-22665151

Fax:86-769-22665155