

Stock Code : TW.5244



Brightek

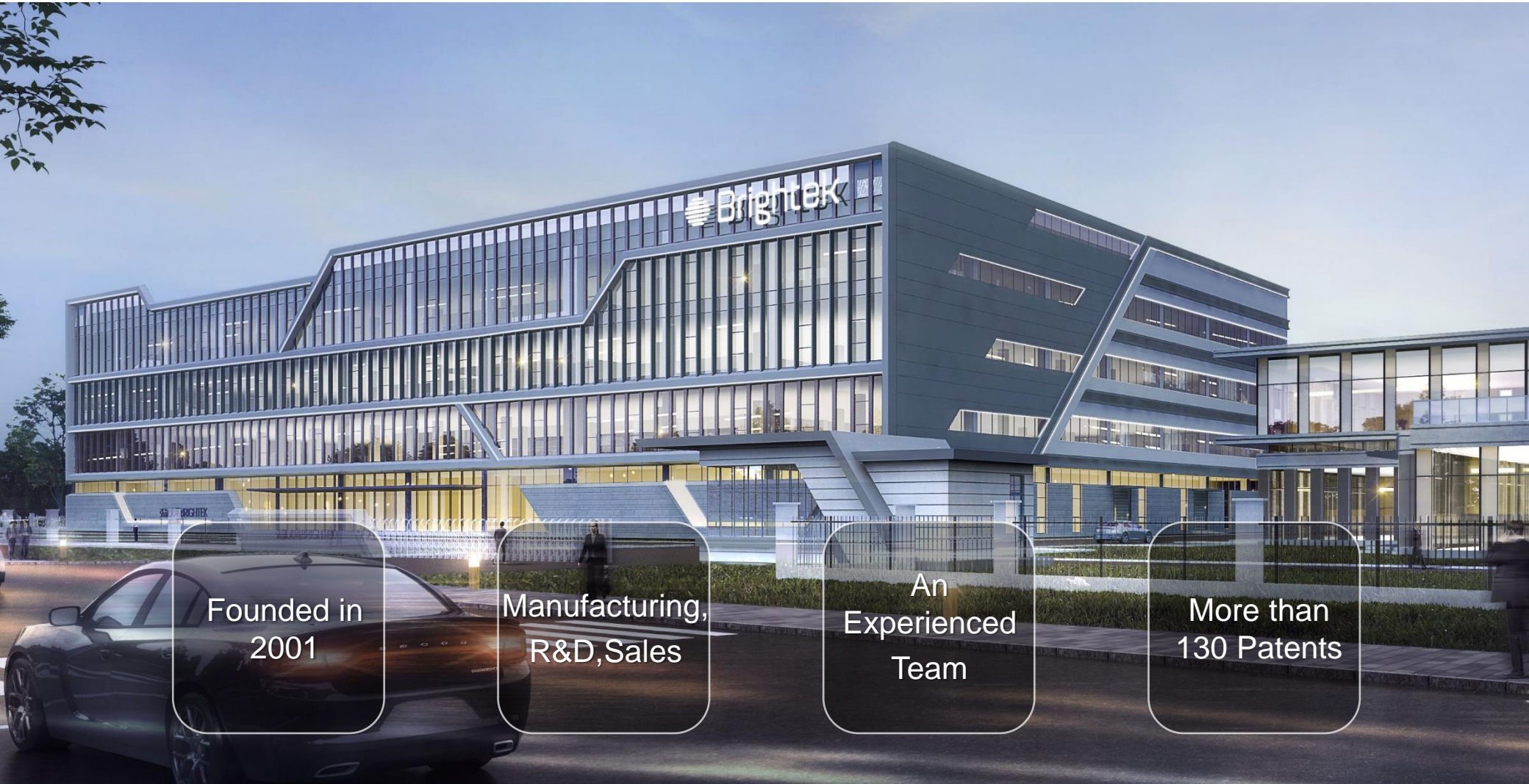
AUTOMOBILE APPLICATIONS

www.brightek.com



Company Overview





Founded in
2001

Manufacturing,
R&D, Sales

An
Experienced
Team

More than
130 Patents

What is Brighttek

Innovative design and solution provider of optoelectronic semiconductor components



Company Profile

2001 founded, 250+staff
• R&D 22%



Located

Taoyuan, TW
Shenzhen, CN
Kunshan, CN; Jiangsu, CN
Sales offices : Chongqing, Tianjin



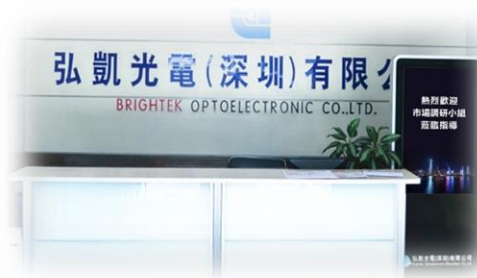
Corporate Vision

Smart lighting
make life wonderful



2001

Brightek (Shenzhen) founded



2005

Brightek (Taiwan) was established
Certified by ISO 14001



2006

Obtained SONY Green Partner certificate



2011

Brightek (Kunshan) was founded

2015

Grand Opening of New Factory in Shenzhen



2019

Joined ISELED Alliance
Integration of informatization and industrialization



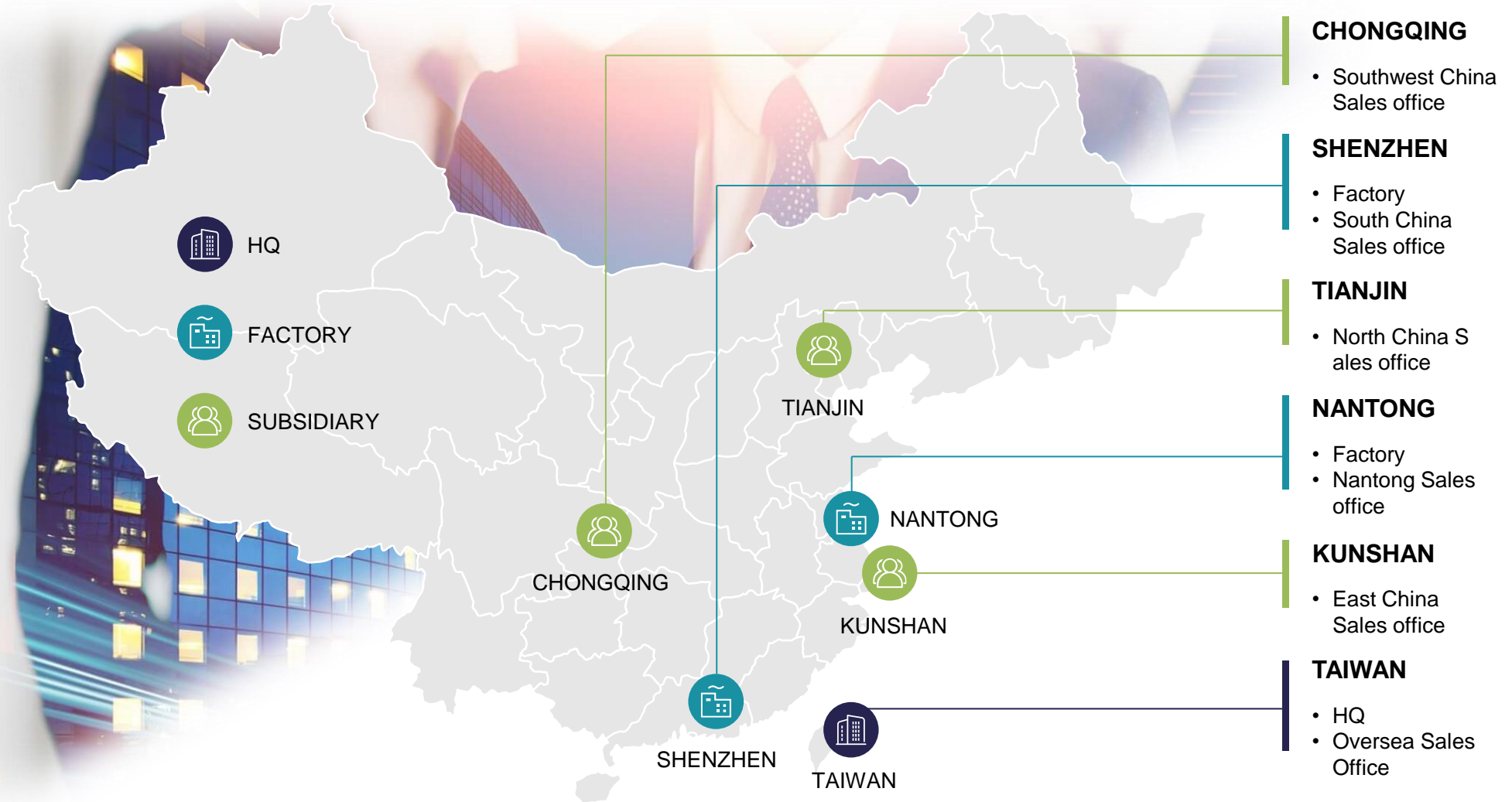
2021 Valeo

Construction of new factory in Nantong
Shenzhen factory has been certified and approved by Valeo



2022

Brightek is listed on Taiwan Stock Exchange.



CHONGQING

- Southwest China Sales office

SHENZHEN

- Factory
- South China Sales office

TIANJIN

- North China Sales office

NANTONG

- Factory
- Nantong Sales office

KUNSHAN

- East China Sales office

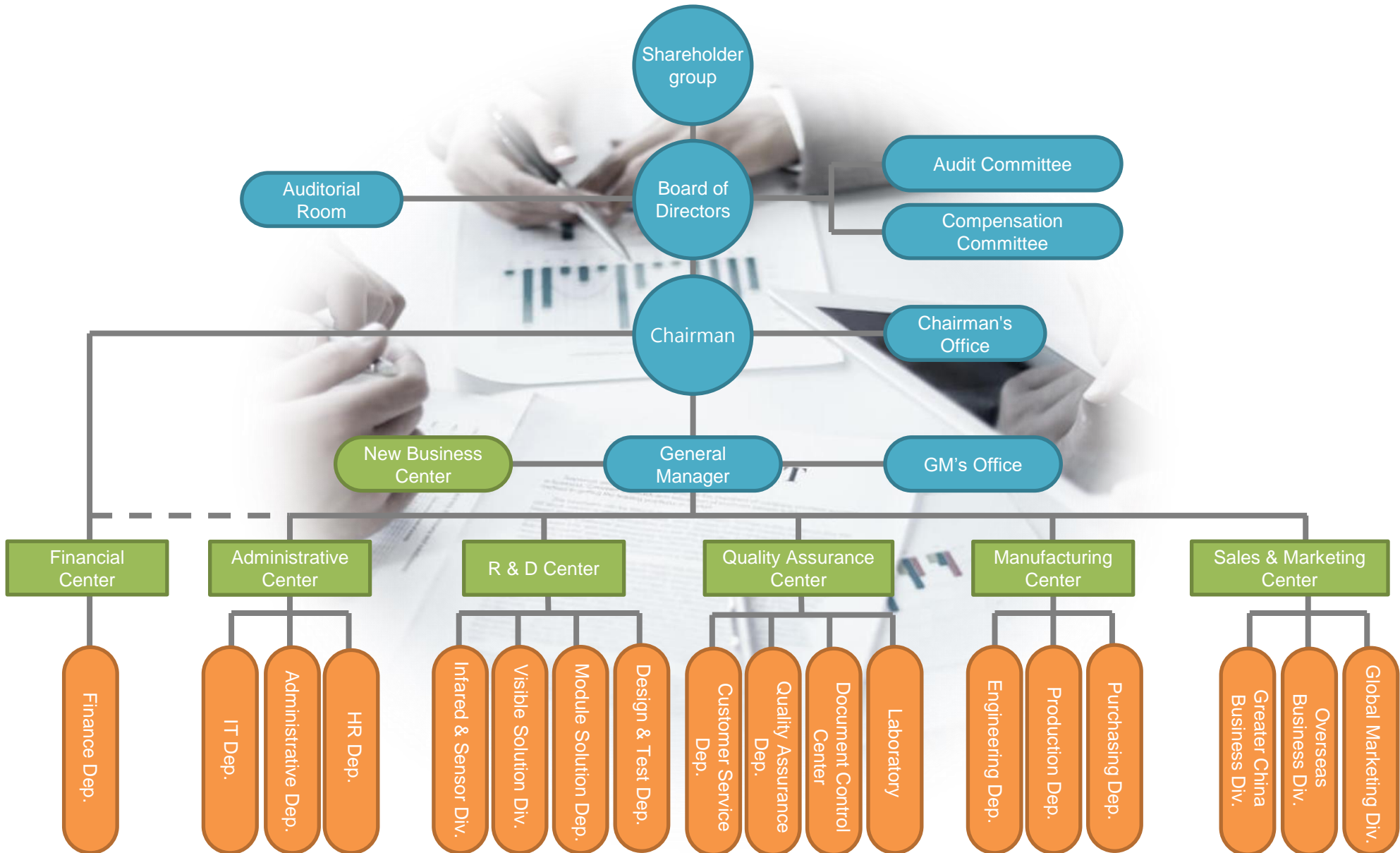
TAIWAN

- HQ
- Oversea Sales Office



Brightek's professional team covers Europe, America, Latin America, Asia Pacific, Middle East and other regions, providing the most complete products and service.





Automated Production lines

Individual production
line for automotive
products only



Production Capacity
320,000K



Level

10,000

Clean Room



Excellent
Quality



Advanced
Equipment

Professional laboratory for doing AEC-Q102 test, reliability tests such as high temperature test to 85 degree Celsius, high moisture test, thermal shock, etc.



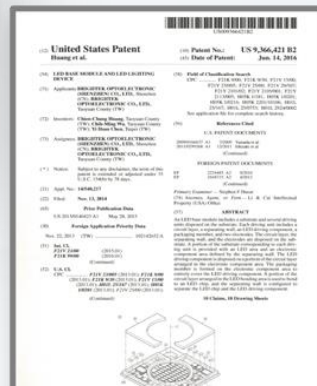
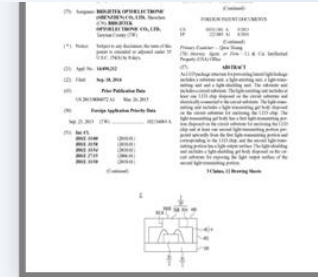
110 Item

Domestic and foreign invention patents, utility model patents, design patents



20 Item

More than 20 patents are ongoing



Forge ahead for **20** years
Based on product quality

Brightek are determined to forge ahead, pioneer and innovate, we have obtained many system certifications in its continuous progress.



ISO9001
International quality
management system

ISO14001
Environmental management
system standards

IATF 16949
Automobile quality
management system

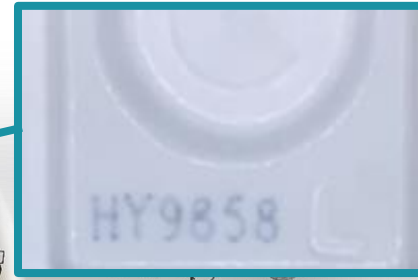
QC080000
Hazardous material process
management system

**Certificate of Integration of
Informatization and
Industrialization**

D-U-N-S No.



Product Material Traceability Management



Laser marking is applied on automotive LEDs

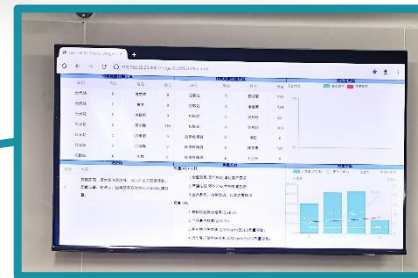


流程卡過站記錄查詢

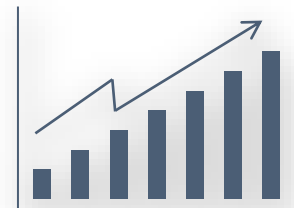
| 批號 | 操作 |
|---------------------|----------|
| BM10-2212070011-001 | CREATE_S |
| BM10-2212070011-001 | START_OF |
| BM10-2212070011-001 | STD_LOT_ |



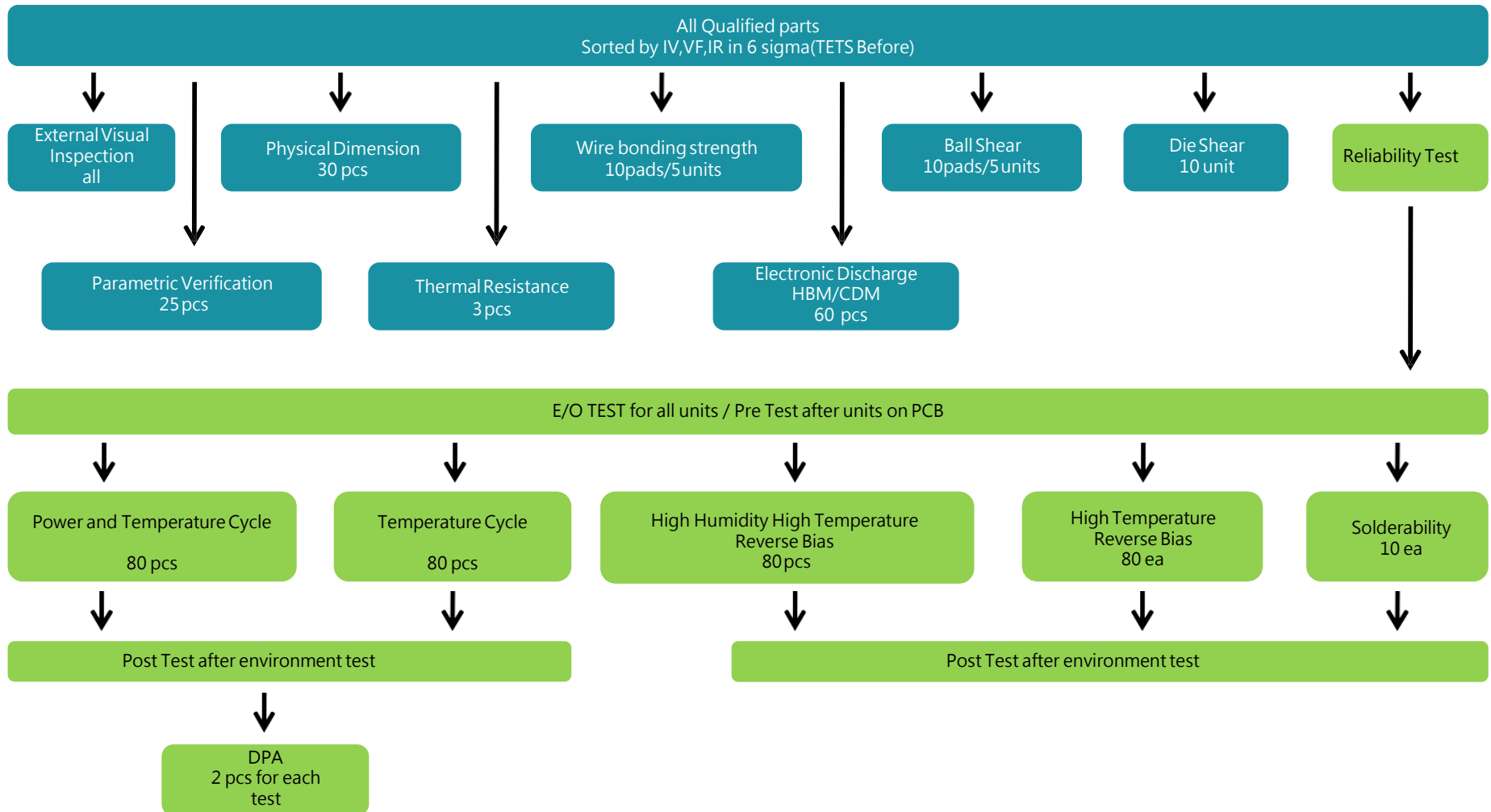
System records can be checked anytime to manage the expiration date and quantity of raw materials with real-time feedback.



Provide real-time feedback and warnings, and efficiently manufacture high-quality products.



AEC-Q102 Test





Product Presentation





State-of-the-art

- Exterior product upgrade
- AEC-Q102 coverage enlargement
- Color homogeneous tech



iCLed Tech

- Noise cancellation tech
- Matrix lamp tech
- Simplified design

Module Tech

- Customized module (W-/AR HUD BL / Smart ambient light)
- Light and Sensor drive integration
- High power driver integration



01

A variety of IC selection scheme, to provide more than 8bit colorful color effect, in line with customer diversity design needs

02

Narrow LED chips' wavelength to better control the color distribution for well consistency.

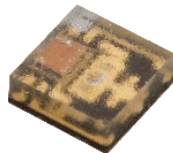
03

In ISELED products, AEC-Q102/AEC-Q100 complince, build in OTP function, and temperature / color correction.

iCLed Series



iCLed 3023



iCLed 20



iCLed 35



iCLed 4516 Side view

Conventional series



EMC 3030



3433



4516 Side view



紅旗-H9



吉利-博瑞



比亞迪-漢



長安-CS85


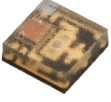







奇瑞-瑞虎7



GEELY



| Model | Photo | Part Number | Emitting color | Iv(mcd/Lm)-Typ | Iv(mcd)-Min~Max | λ d(nm)/CCT(K) | V _F (V) | 2 θ _{1/2} | I _F (mA)-Typ | Where Used |
|---|--|---------------|----------------|----------------|-----------------|------------------------|--------------------|---------------------------|-------------------------|------------------|
| ISELED 3023 4.5*1.6*1.7mm |  | CD3023VGBMG01 | Red | 390 | - | 621 | 4.5-5.5 | 120 | 20 | Ambient lighting |
| | | | Green | 910 | - | 526 | | | 20 | |
| | | | Blue | 100 | - | 467 | | | 20 | |
| iCLed20 6pin 2.0*2.0*0.75mm |  | VC2020VGBCFN1 | Red | 280 | 220-350 | 630-636 | 4.5-5.5 | 120 | 20 | Ambient lighting |
| | | | Green | 850 | 700-1050 | 524-529 | | | 20 | |
| | | | Blue | 150 | 120-200 | 455-460 | | | 20 | |
| iCLed35 6pin 3.4*3.5*1.47mm |  | VC3535VGBMFN1 | Red | 460 | 370-570 | 630-636 | 4.5-5.5 | 120 | 20 | Ambient lighting |
| | | | Green | 1900 | 1520-2380 | 524-529 | | | 20 | |
| | | | Blue | 330 | 270-410 | 455-460 | | | 20 | |
| iCLed4516 Side view 4.5*1.6*1.7mm |  | VC4516VGBMFN1 | Red | 350 | 280-440 | 630-636 | 4.5-5.5 | 120 | 12.7 | Ambient lighting |
| | | | Green | 1500 | 1200-1900 | 524-529 | | | 12.8 | |
| | | | Blue | 240 | 190-300 | 455-460 | | | 9 | |

| Model | Photo | Part Number | Emitting color | Iv(mcd/Lm)-Typ | Iv(mcd)-Min~Max | λ d(nm)/CCT(K) | V _F (V) | 2 θ _{1/2} | I _F (mA)-Typ | Where Used |
|---|--|------------------|----------------|----------------|-----------------|------------------------|--------------------|---------------------------|-------------------------|------------------|
| EMC3030 RGB 3.0*3.0*3.0mm |  | V63030VGBMLN1 | Red | 17 | 14-20 | 630-636 | 2.0-2.6 | 120 | 150 | Ambient lighting |
| | | | Green | 44 | 38-50 | 524-529 | 3.0-3.6 | | 150 | |
| | | | Blue | 10 | 8-13 | 455-460 | 3.0-3.6 | | 150 | |
| iCLed4516 Side view 4.5*1.6*1.7mm |  | V64516VGBMFZ1 | Red | 480 | 380-600 | 630-636 | 1.8-2.4 | 120 | 20 | Ambient lighting |
| | | | Green | 1760 | 1400-2200 | 524-529 | 2.8-3.4 | | 20 | |
| | | | Blue | 300 | 240-380 | 455-460 | 2.6-3.2 | | 20 | |
| PLCC6 3433 3.4*3.3*1.92mm RGB |  | V63433VGBMFZ1 | Red | 630 | 500-800 | 630-636 | 1.7-2.5 | 120 | 20 | Ambient lighting |
| | | | Green | 2660 | 2150-3350 | 524-529 | 2.6-3.4 | | 20 | |
| | | | Blue | 420 | 330-520 | 455-460 | 2.6-3.4 | | 20 | |
| | | 6SC3433VGB00MSZ5 | Red | 800 | 630-1000 | 620-630 | 1.8-2.6 | 120 | 20 | Ambient lighting |
| | | | Green | 2300 | 1902-2800 | 520-530 | 2.6-3.4 | | 20 | |
| | | | Blue | 500 | 400-630 | 460-470 | 2.6-3.4 | | 20 | |
| | | 6SC3433VGB00MSZ9 | Red | 680 | 550-850 | 630-636 | 1.8-2.6 | 120 | 20 | Ambient lighting |
| | | | Green | 2660 | 2150-3350 | 520-525 | 2.6-3.4 | | 20 | |
| | | | Blue | 280 | 200-350 | 450-455 | 2.6-3.4 | | 20 | |

01

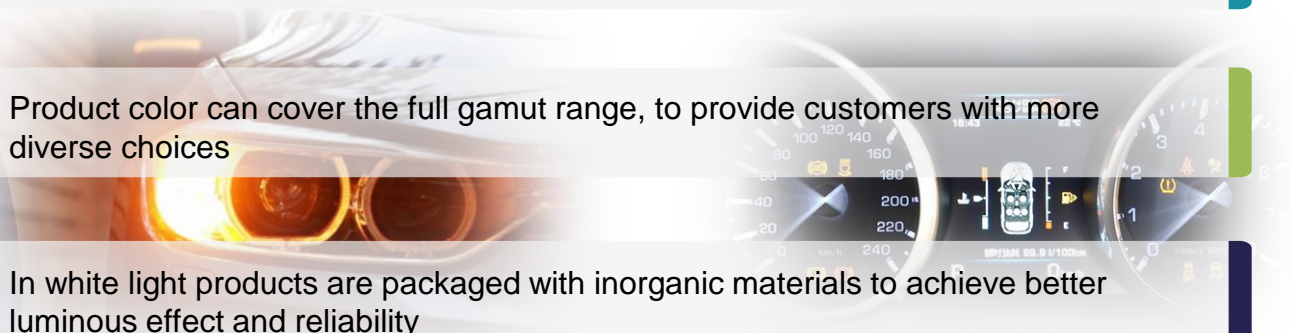
Full range of power cover up to 3w, including PLCC package, EMC package and ceramic package

02

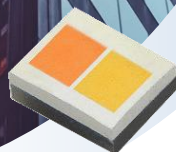
Product color can cover the full gamut range, to provide customers with more diverse choices

03

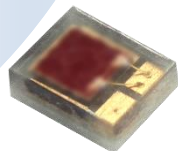
In white light products are packaged with inorganic materials to achieve better luminous effect and reliability



Automotive Lighting



1519
(Dual Color)



1519



2720



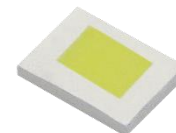
3528



3528



3433



1810



吉利-博越



威马-W6



大众-迈腾



别克-英朗

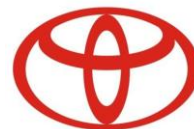


林肯-MKC



雪佛兰-迈锐宝

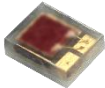
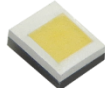
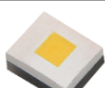
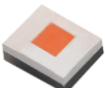
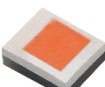

GEELY


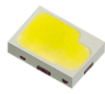

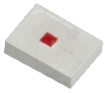




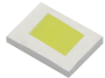


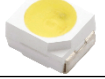


JAC
江淮汽车

CHERY
奇瑞

中华

| Model | Photo | Part Number | Emitting color | $\Phi_v(\text{lm})$ -Typ | $\Phi_v(\text{lm})$ -Min~Max | $\lambda_d(\text{nm})/\text{CCT}(\text{K})$ | $V_f(\text{V})$ | $2\theta_{1/2}$ | $I_f(\text{mA})$ -Typ | Where Used |
|-------------------------------|---|------------------|----------------|--------------------------|------------------------------|---|-----------------|-----------------|-----------------------|---|
| Ceramic 1519 1.5*1.9*0.9mm |  | V51519V20CPN1 | Red | 50 | 38-76 | 620-630 | 2.2-2.8 | 120 | 500 | Brake lamp |
| | | V51519Y85CPN1 | Yellow | 40 | 32-66 | 585-597 | 2.2-2.8 | 120 | 500 | Turning Signal, Fog lamp |
| |  | 5F1519AW3FFMZQNG | Cool White | 170 | 150-200 | 6000K | 2.8-3.4 | 120 | 500 | Daytime running light, Plate light, LOGO Projection lamp |
| | | V51519W40WPZ1 | Cool White | 200 | 180-220 | 6000K | 2.8-3.8 | 120 | 500 | |
| | | V51519W40WQZ1 | Cool White | 390 | 360-420 | 6000K | 2.8-3.8 | 120 | 1000 | |
| |  | V51519W40WLZ1 | Cool White | 55 | 44-66 | 6000K | 2.8-3.4 | 120 | 150 | Daytime running light, Plate light, LOGO Projection lamp |
| | | V51519W40WNZ1 | Cool White | 120 | 100-150 | 6000K | 2.8-3.6 | 120 | 350 | |
| |  | V51519W10WLZ1 | PC Amber | 32 | 24-38 | 1700K | 2.8-3.4 | 120 | 150 | Turning Signal, Fog lamp |
| | | V51519W10WNZ1 | PC Amber | 72 | 58-87 | 1700K | 2.8-3.6 | 120 | 350 | |
| |  | 5F1519AW5FFMZYN | PC Amber | 110 | 90~130 | 1700K | 2.8-3.6 | 120 | 500 | Turning Signal, Fog lamp |
| |  | V51519WW0WNZ1 | White | 65 | 50-76 | 6000K | 2.8-3.4 | 120 | 200 | Turning Signal& Daytime running light |
| | | | PC Amber | 40 | 30-50 | 1700K | 2.8-3.4 | 120 | 200 | |

| Model | Photo | Part Number | Emitting color | $\Phi_v(\text{lm})$ -Typ | $\Phi_v(\text{lm})$ -Min~Max | $\lambda_d(\text{nm})/\text{CCT}(\text{K})$ | $V_f(\text{V})$ | $2\theta_{1/2}$ | $I_f(\text{mA})$ -Typ | Where Used |
|---|--|---------------|----------------|--------------------------|------------------------------|---|-----------------|-----------------|---|---|
| EMC 2720 2.75*2.0*0.6mm |  | V52720V10CNN1 | Red | 38 | 28-50 | 613-623 | 1.8-2.8 | 120 | 200 | Brake lamp |
| | | V52720V20CNN1 | Red | 29 | 21-38 | 618-633 | 1.8-2.8 | 120 | 200 | Brake lamp |
| | | V52720Y85CNN1 | Yellow | 34 | 24-44 | 585-594 | 1.8-2.8 | 120 | 200 | Turning Signal, Fog lamp |
| |  | V52720W40WMZ1 | Cool White | 115 | 87-150 | 0.325,0.335 | 2.8-3.8 | 120 | 350 | Daytime running light, Plate light, LOGO Projection lamp |
| | | V52720W40WNZ1 | Cool White | 70 | 58-100 | 0.325,0.335 | 2.8-3.8 | 120 | 200 | |
| |  | V52720W10WMZ1 | PC Amber | 60 | 50-87 | 0.57,0.42 | 2.8-3.8 | 120 | 350 | Turning Signal, Fog lamp |
| | | V52720W10WNZ1 | PC Amber | 38 | 32-58 | 0.57,0.42 | 2.8-3.8 | 120 | 200 | |
| |  | V52720V20CMN1 | Red | 48 | 38-66 | 618-633 | 1.8-2.8 | 120 | 350 | Brake lamp |
| | | V52720V27CNN1 | Red | 22 | 15-39 | 637-639 | 1.8-2.8 | 120 | 200 | |
| |  | V52720W60WNZ1 | cyan | 50 | 44-58 | X:0.17/Y:0.35 | 2.8-3.8 | 120 | 200 | courtesy light |
|  | V52720W50VNZ1 | Cool White | 70 | 58-80 | X:0.318/Y:0.331 | 2.8-3.6 | 120 | 200 | Daytime running light, Plate light, LOGO Projection lamp | |

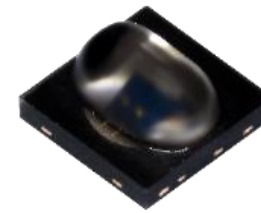
| Model | Photo | Part Number | Emitting color | Iv(mcd/Lm)-Typ | Iv(mcd)-Min~Max | λ d(nm)/CCT(K) | V _F (V) | 2 θ _{1/2} | I _F (mA)-Typ | Where Used |
|------------------------------|---|------------------|----------------|----------------|-----------------|------------------------|--------------------|---------------------------|-------------------------|-----------------------------|
| CSP 1810 1.7*0.95*0.3mm |  | V51810W40WHN1 | White | 22 | 16-28 | X:0.3278 Y:0.3425 | 2.6-3.4 | 120 | 60 | HUD |
| PLCC2 3528 3.5*2.8*1.9mm |  | 5SC3528V22J0CK01 | Red | 2900 | 2000-5000 | 618-628 | 1.8-2.6 | 120 | 50 | Dashboard, central unit |
| | | 5SC3528V14J0CK01 | Red | 3650 | 2200-6000 | 610-620 | 2.0-2.6 | 120 | 70 | |
| | | 6SC3528V34HCKZ1 | Red | 11 | 8.5-14.5 | 630-640 | 1.6-2.2 | 120 | 2 | |
| | | 5SC3528Y24J0CKZ2 | Yellow | 952 | 800-1300 | 585-591 | 1.8-2.4 | 120 | 20 | |
| | | 6SC3528G72E0CKZ1 | Green | 1500 | 780-2800 | 520-535 | 2.9-3.5 | 120 | 20 | |
| | | 6SC3528A22E0CK01 | Red | 310 | 160-600 | 600-612 | 1.8-2.4 | 120 | 20 | |
| | | 6SC3528B12E0CKZ1 | Blue | 400 | 210-780 | 462.5-472.5 | 2.9-3.5 | 120 | 20 | |
| PLCC4 3528 3.5*2.8*1.8mm |  | 5SC3528V22J0CP01 | Red | 2900 | 2000-5000 | 618-628 | 1.8-2.6 | 120 | 50 | Brake lamp |
| | | 5SC3528V14J0CP02 | Red | 3100 | 2500-4000 | 612-621 | 1.8-2.4 | 120 | 50 | Brake lamp |
| | | 5SC3528Y24I0CP01 | Yellow | 2650 | 1300-3600 | 585-597 | 1.9-2.5 | 120 | 70 | Turning Signal |
| |  | 5SC3528W32F0WPZ1 | White | 23Lm | 18-28Lm | X:0.321 Y:0.336 | 2.8-3.6 | 120 | 70 | Plate light |
| PLCC6 3433 3.4*3.3*1.92mm |  | 5Z3433AA26DN01NQ | Red | 8110 | 6000-17000 | 609-621 | 1.9-2.5 | 120 | 140 | Brake lamp |
| | | 5Z3433AV26DN01NQ | Red | 6250 | 3600-13130 | 620-630 | 1.9-2.7 | 120 | 140 | Brake lamp |
| | | 5Z3433AY26DN01NQ | Yellow | 7350 | 3600-13130 | 585-597 | 1.9-2.7 | 120 | 140 | Turning Signal |
| |  | 5Z3433AW35END1NQ | White | 17270 | 10100-27638 | X:0.322 Y:0.335 | 2.7-3.6 | 120 | 140 | Daytime running light |
| | | 5Z3433AW55ENZ1NQ | PC Amber | 13130 | 10100-22110 | X:0.575 Y:0.415 | 2.7-3.9 | 120 | 140 | Turning Signal, Fog lamp |

01

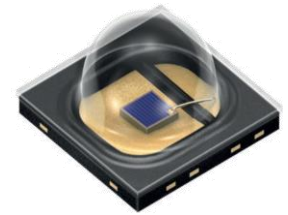
Asymmetric light "pattern" can achieve more uniform and clearer infrared illumination , building a better foundation for camera system's post processing for a better image display .

02

At the radiation power of $\pm 40^\circ$, the asymmetric optical mode is 30 % more symmetrical than the conventional type .



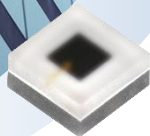
Asymmetric



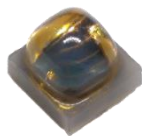
Conventional



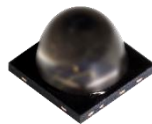
Infrared Series



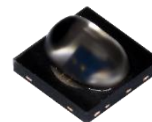
1616 Flat



1616 80°



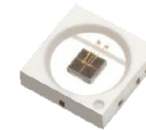
3838
(50°/90°/150°)



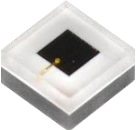
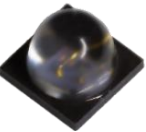

3838 Asymmetric
(45°x25°/150°x90°)

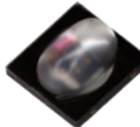


3030 60°/90°



3030 120°

| Model | Photo | Part Number | Chip Color | λ_p (nm) | $2\theta_{1/2}$ (Degree) | Power Consumption (W) |
|---|---|---------------|------------|------------------|--------------------------|-----------------------|
| Ceramic 1616 80D 1.60 x 1.60 x 1.69mm |  | HE1616F85CQ00 | IR | 850 | 80 | 2 |
| | | HE1616F85CQ01 | IR | 850 | 80 | 3 |
| | | HE1616F94CQ00 | IR | 940 | 80 | 2 |
| | | HE1616F94CQ01 | IR | 940 | 80 | 3 |
| Ceramic 1616 Flat 1.60 x 1.60 x 0.81mm |  | HL1616F85CQ00 | IR | 850 | 120 | 2 |
| | | HL1616F85CQ01 | IR | 850 | 120 | 3 |
| | | HL1616F94CQ00 | IR | 940 | 120 | 2 |
| | | HL1616F94CQ01 | IR | 940 | 120 | 3 |
| EMC 3838 40/50D 3.85 x 3.85 x 2.66mm |  | SF3838F85CQ00 | IR | 850 | 40 | 2 |
| | | SF3838F85CQ01 | IR | 850 | 50 | 3 |
| | | SF3838F94CQ00 | IR | 940 | 50 | 2 |
| | | SF3838F94CQ01 | IR | 940 | 50 | 3 |
| EMC 3838 150D 3.85 x 3.85 x 1.51mm |  | SH3838F85CQ00 | IR | 850 | 80 | 2 |
| | | SD3838F85CQ01 | IR | 850 | 90 | 2 |
| | | SD3838F85CQ00 | IR | 850 | 90 | 3 |
| | | SD3838F94CQ01 | IR | 940 | 90 | 2 |
| | | SD3838F94CQ00 | IR | 940 | 90 | 3 |

| Model | Photo | Part Number | Chip Color | λ_p (nm) | $2\theta_{1/2}$ (Degree) | Power Consumption (W) |
|--|---|---------------|------------|------------------|--------------------------|-----------------------|
| EMC 3838 150D 3.85 x 3.85 x 1.51mm |  | SJ3838F85CQ00 | IR | 850 | 150 | 2 |
| | | SJ3838F85CQ01 | IR | 850 | 150 | 3 |
| | | SJ3838F94CQ00 | IR | 940 | 150 | 2 |
| | | SJ3838F94CQ01 | IR | 940 | 150 | 3 |
| EMC 3838 45x25D 3.85 x 3.85 x 3.30mm |  | SK3838F85CQ00 | IR | 850 | 45x25 | 3 |
| | | SK3838F94CQ00 | IR | 940 | 45x25 | 3 |
| EMC 3838 150x90D 3.85 x 3.85 x 1.65mm |  | SL3838F85CQ00 | IR | 850 | 130x80 | 2 |
| | | SL3838F85CQ01 | IR | 850 | 150x90 | 3 |
| | | SL3838F94CQ00 | IR | 940 | 150x90 | 2 |
| | | SL3838F94CQ01 | IR | 940 | 150x90 | 3 |

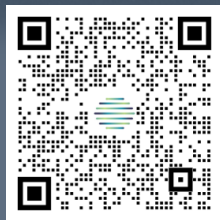
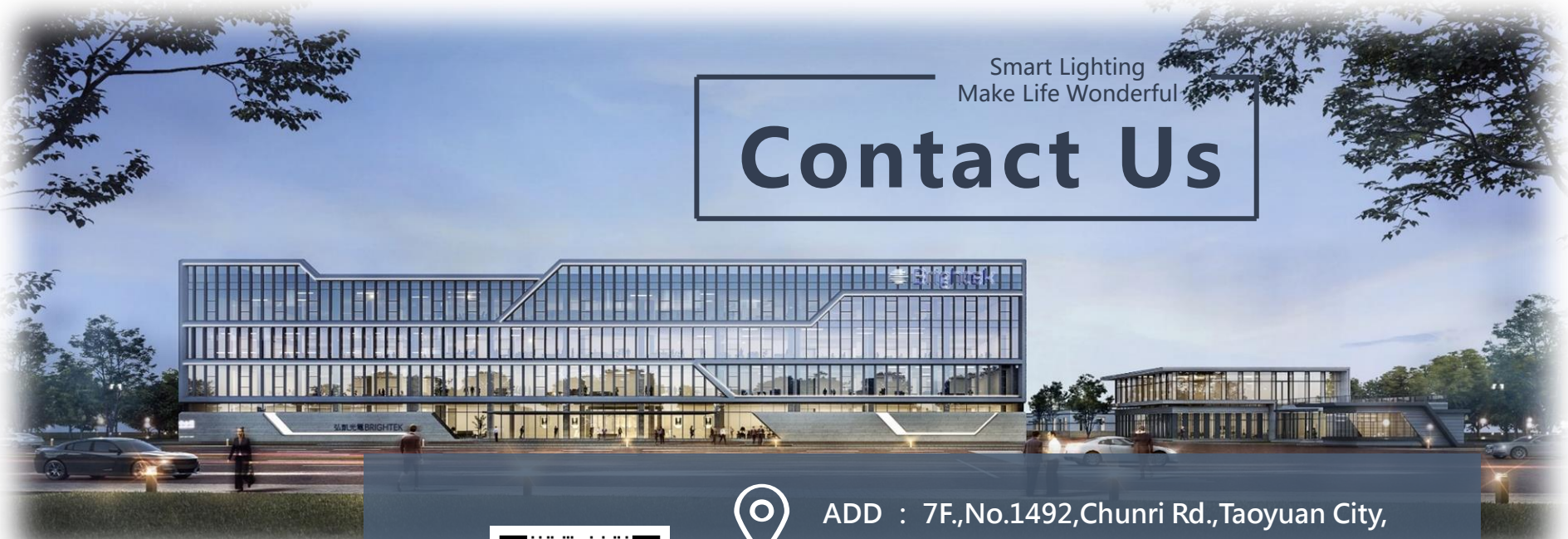
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