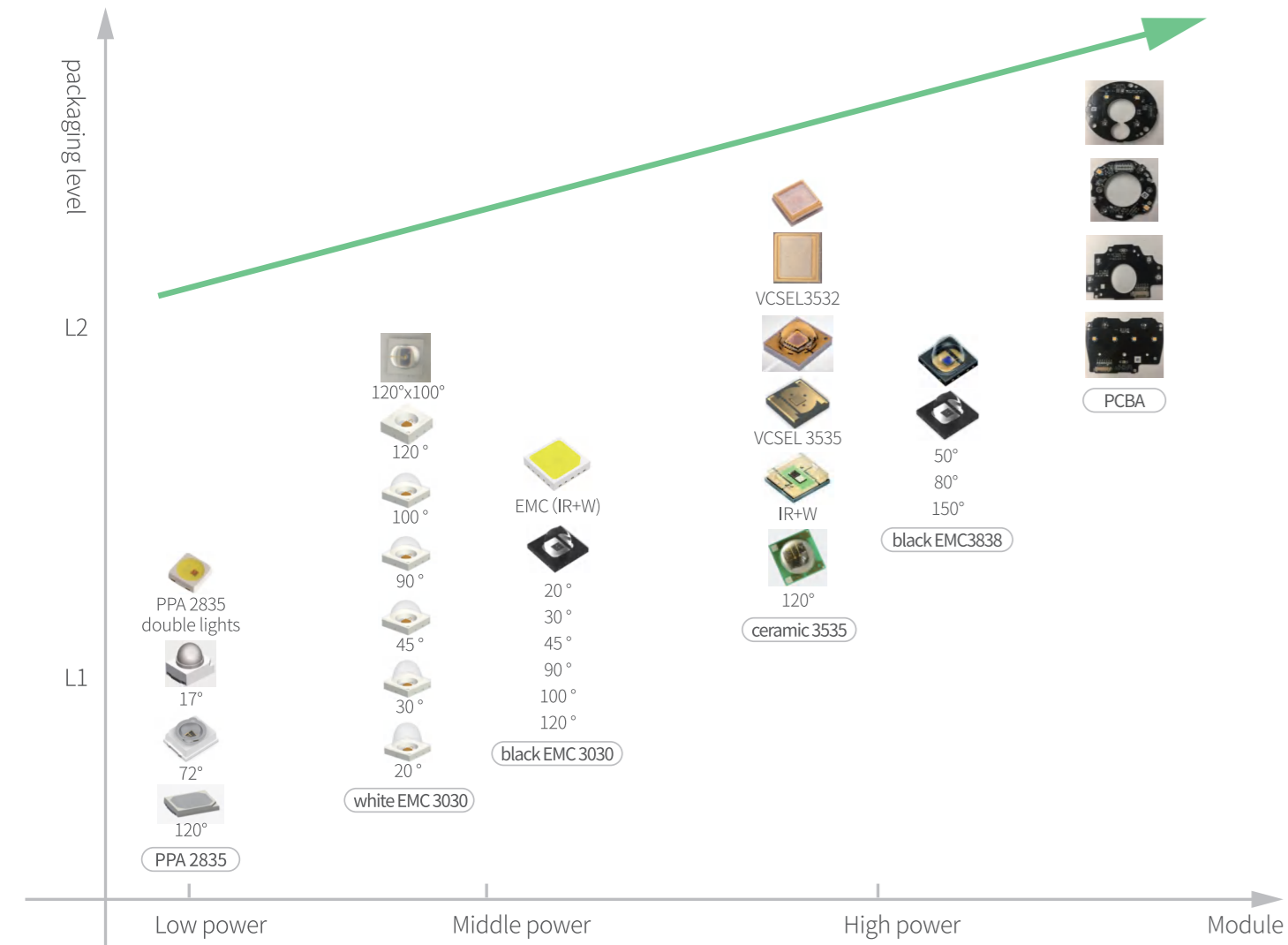


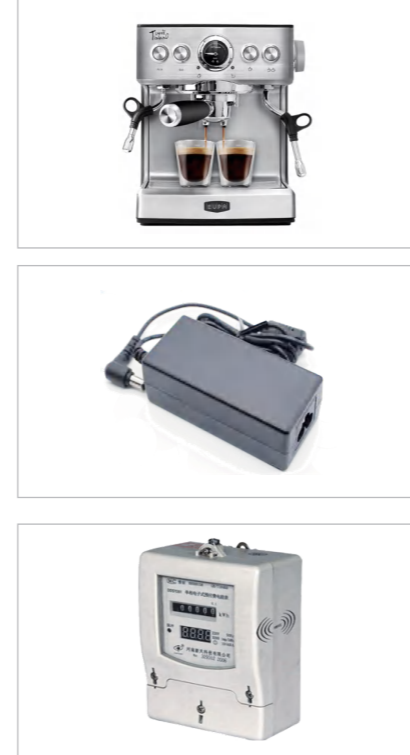
## IR LED SERIES



1. 850nm and 940nm wavelength available
2. Wide range of viewing angles and customizable
3. Wide range of power by PCT/ EMC/ ceramic solutions
4. Extended module solution shorten end-product development cycle
5. Industry standard footprint makes easy pin-to-pin replacement



## OPTOCOUPLER SERIES



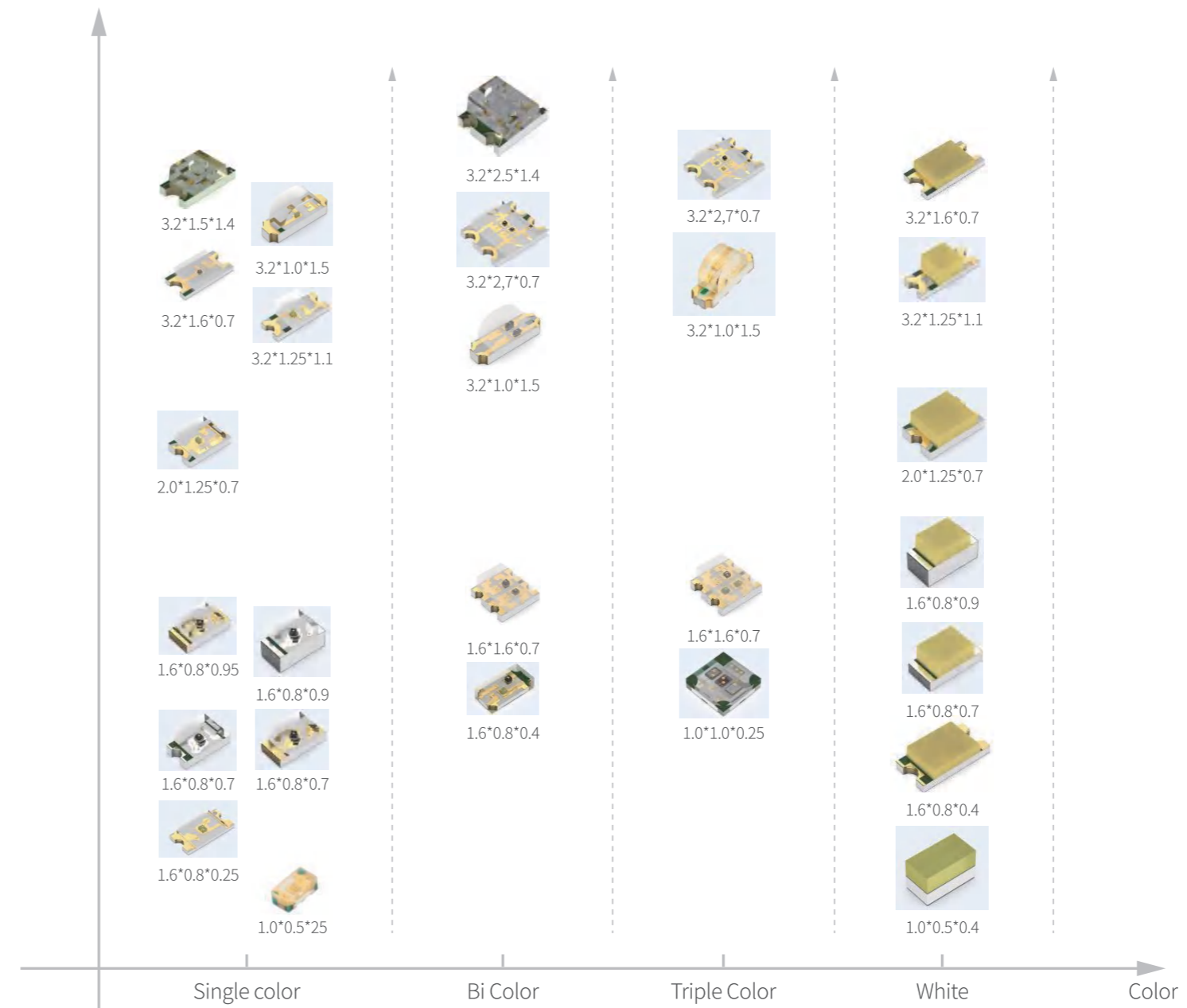
1. Highly recognizable red glue been applied to make easy optical inspection and hence ensure high reliability
2. Double lead frame package with proven process makes high reliability
3. Environment-friendly halogen-free packaging
4. Matte tin pins make excellent bonding and antioxidant properties
5. Diversified chip solution for various applications



## CHIP LED SERIES



1. Ultra-high reliability
2. Wide range of single color and multi-color solutions
3. Excellent color uniformity
4. High ESD ratings, excellent UV resistant
5. Compact packages

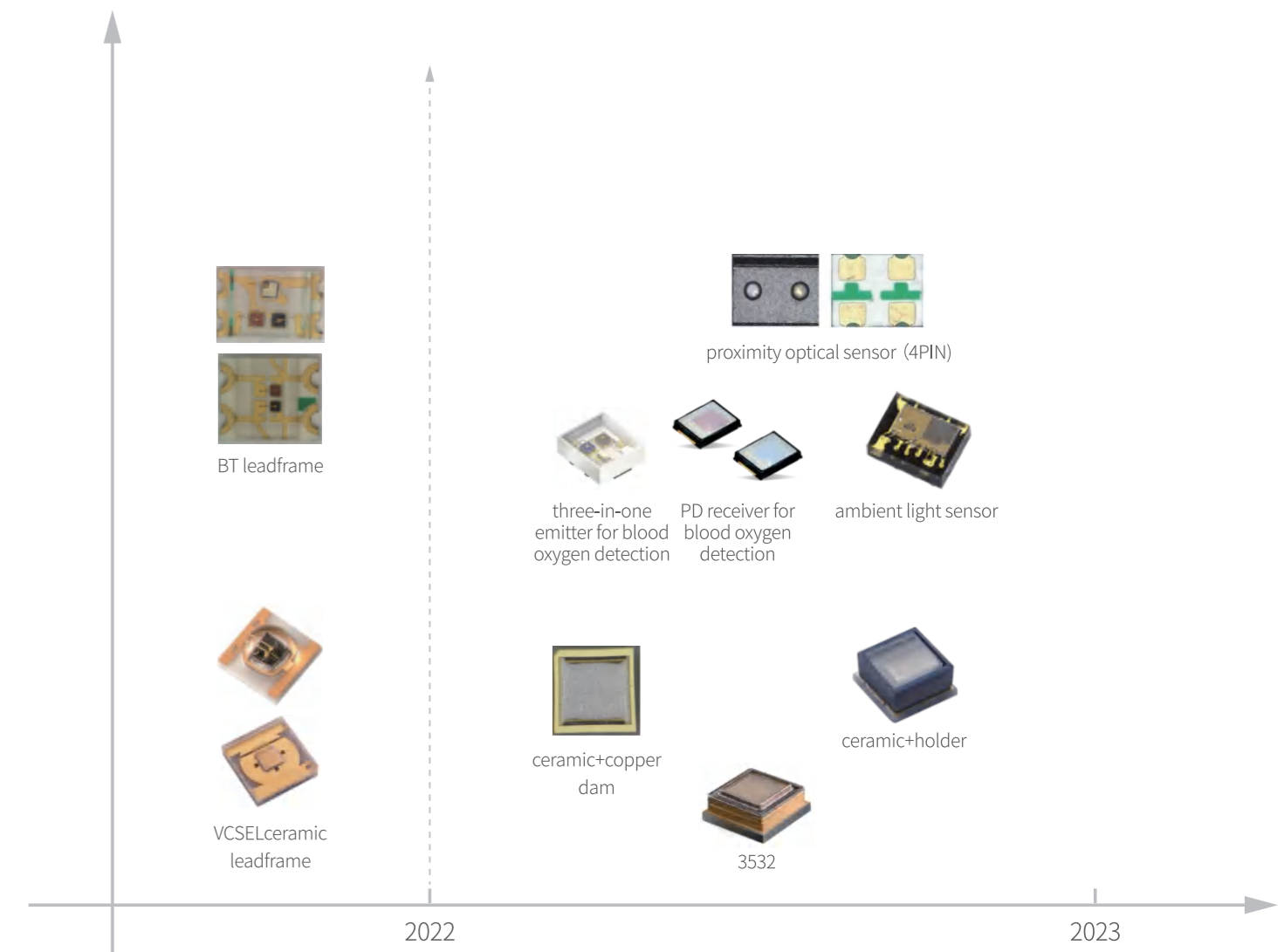


## INTELLIGENT SENSING SERIES



IR sensor is widely used in our life, such as intelligent water meters, gas meters, remote control and wearable devices, etc.

1. Integrated package, which make dimension design flexible
2. Quick response
3. Support customizing different veiwng angle
4. Complete product solutions which can match different application areas.



**R&D Strength**

- 2001 The first domestic SMD LED manufacturing enterprise in China
- 2004 The first domestic mass production of high-power ceramic LEDs
- 2007 The first domestic mass production of television LEDs
- 2013 The world's first mass production of ceramic filament products
- 2014 The first domestic mass production of inorganic packaged UVC products
- 2017 The world's first successful R&D of ultra-thin flexible OOD MINI LED products
- 2017 Awarded the National Technology Invention Second Prize
- 2019 Successfully co-developed car MINI LED grille lights with Nissan
- 2020 Released the world's first MINI LED solution with a spacing of 0.39 millimeters at CES2000 in the United States
- 2021 Released the world's first P0.68 pixelated taillight product
- 2022 Successfully developed zero-defect products
- 2023 Globally launched MiniLED ambient light product solution/China's first Display Electronic Slurry (DES) color E-paper

377 R&D employees, 22.5 of the total employees  
14 masters and doctors

Refond Laboratory Center obtained CNAS accreditation in 2015 and consists of laboratories in Shenzhen, Yiwu, and Gedian (under construction). With comprehensive laboratory capabilities, it is committed to building a first-class LED research and development center. It has been successively approved as a national-level laboratory, the Shenzhen LED TV backlight engineering technology research and development center, and the Guangdong LED TV backlight engineering technology research and development center, and has been awarded the CNAS certificate.

Adhering to the philosophy of valuing talent, research, and innovation, Refond has submitted a total of 576 patent applications over the years, successfully registering a large number of patents, with a total of 433 authorized patents, including 172 invention patents.

## QUALITY ASSURANCE

SYSTEM CERTIFICATION	IATF 16949	ISO 17025
	ISO 9001	ISO 45001
	IECQ QC 080000	IEC 27001
	ISO 14001	ESD (ANSI S20.20)

Quality System

Third-party testing meets international standards requirements ROHS, REACH, HFIEC/EN 62471 LM80 and others

Through international benchmarking of major enterprises and third-party SGS social responsibility audits, meet the requirements of the EICC Electronic Industry Code of Conduct.

# REFOND

## Electrical Market Center

www.refond.com Refond Optoelectronics

Refond electrical market center focuses on the specialization and innovation of LED components. Based on BT leadframe, ceramic leadframe, EMC material and plastic package these four product platforms, it provides lighting source and optical solutions to meet needs of different applications on the market.

Refond electrical market center has four product lines, including CHIP LED (0201, 0402, 0603, 0805, 1204, 1206, 1616, 3227), IR LED (2835 3030 3838 3535 3532), optocoupler (81X series, 35X series, 10XX series, high speed 6N13X series) and optical sensor (0603, 2835, 4428). They are widely used in household appliances, consumer electronics, security, communication, industrial control, and other fields.

These product lines consistently serves top enterprises in various fields, such as BOSCH, Panasonic, Midea, Haier, Hikvision, Dahua, TPLink. With the help of group center platform strategy and customer-oriented principle, They are providing good product and service for customers.

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创新科技. 丰富人类生活!  
Innovation enriches life

深圳市瑞豐光電子股份有限公司  
SHENZHEN REFOND OPTOELECTRONICS CO.,LTD.

Stock code: 300241  
Refond Optoelectronics Building, Ronghui Road, Guangming District, Shenzhen, Guangdong, China  
TEL:+86-0755-29675000  
FAX:+86-755-6683-9322 sales@refond.com

Refond Optoelectronics Co., Ltd. (Stock Code: 300241), established in 2000, is a globally renowned innovative technology company engaged in the research, development, production, and sales of LEDs, modules, and application solutions.

Technological innovation, leading-edge technology, and product differentiation are the core competencies that ensure Refond's success. The company has steadily expanded and promoted development in professional fields such as lighting, display, automotive, electronics, and touch display, establishing deep strategic partnerships with global top-tier brands. Refond focuses on research and business development in emerging fields such as automotive lighting and displays, Mini LEDs, and touch display electronic paper to enhance its core competitiveness and sustainable profitability.

Refond operates three production bases in Shenzhen, Guangdong; Gedian, Hubei; and Yiwu, Zhejiang, with an area of approximately 294,000 square meters. The company boasts mature manufacturing processes and comprehensive automated production lines, with over 6000 advanced pieces of equipment, including cutting-edge automated quality inspection devices. With an annual production yield rate exceeding 99%, the high level of automation and information-driven hardware and software systems ensure Refond's strong manufacturing capabilities and product quality.

Corporate Mission: Innovation enriches life.  
Corporate Vision: Become the world's leading technology company

## ABOUT REFOND

## MANUFACTURING CAPABILITIES



**Shenzhen Production Base**  
Area: 34,000 square meters  
Employees: 300+  
Production: Automotive LEDs/Large and Small Backlight/MiniLED



**Zhejiang Production Base**  
Area: 160,000 square meters  
Employees: 1300+  
Production: Lighting/Electrical/RGB /Optocoupler/Specialty LEDs



**Hubei Production Base**  
Area: 100,000 square meters  
Employees: 500+  
Production: Automotive LEDs/MiniLED /Backlight/Touch Display/Electronic Paper Modules

