



LIZ Electronic

Company Profile

2023.Q3



DGPHNST
— 肇年 —
电话: 0755-23173910

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LIZ Electronics' Development--1



Company	LIZ Electronic (Nantong) Co.,Ltd.
Address	No.789 Kangfu Rd.,Nantong, Jiangsu, China 226300 Tel: +86-513-68856666 Fax:+86-513-68383688 E-mail: sales.ks@lizgroup.com Website: www.lizgroup.com
Authorized Capital	33Million USD
Employees	1200
Land Area	100,000 m2
System Certificate	ISO9001:2015 IATF16949: 2016 ISO14000: 2015 ISO45001: 2018
Building Area	F1: 20,000 m2 ; F2: 20,000 m2

LIZ Electronics' Development---2

● Year of establishment: 1988

● Factory area: 100,000m²

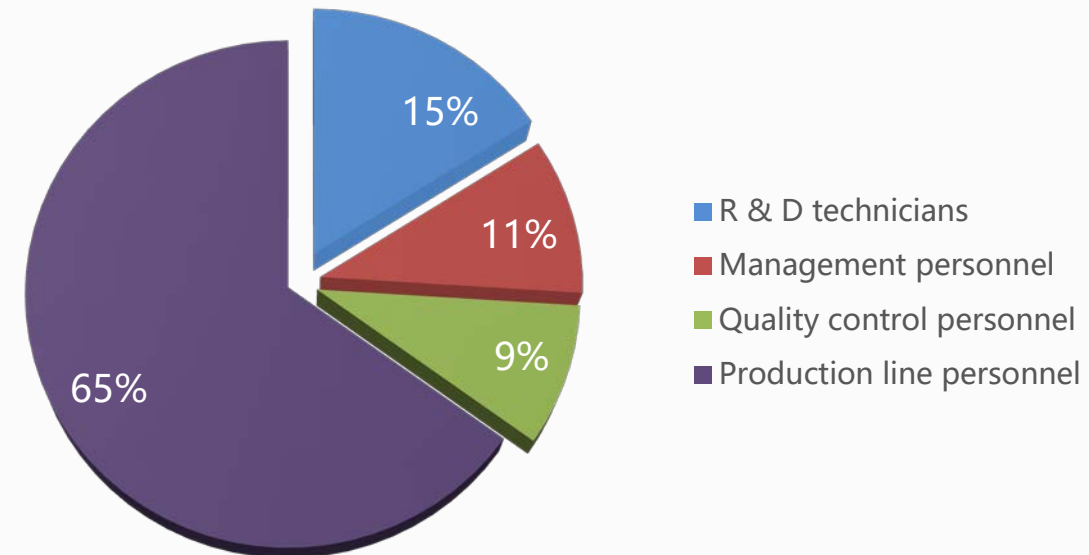
● Number of factories: 1,200

● The main:

- Thick Film Chip Resistors
- Metal Current Sensing Chip Resistors
- Chip Array Chip Resistors
- Chip Diode

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LIZ ELECTRONICS
EMPLOYEE DIVISION



LIZ Electronics' Development---3

Nantong Factory



LIZ Electronics' Development---4

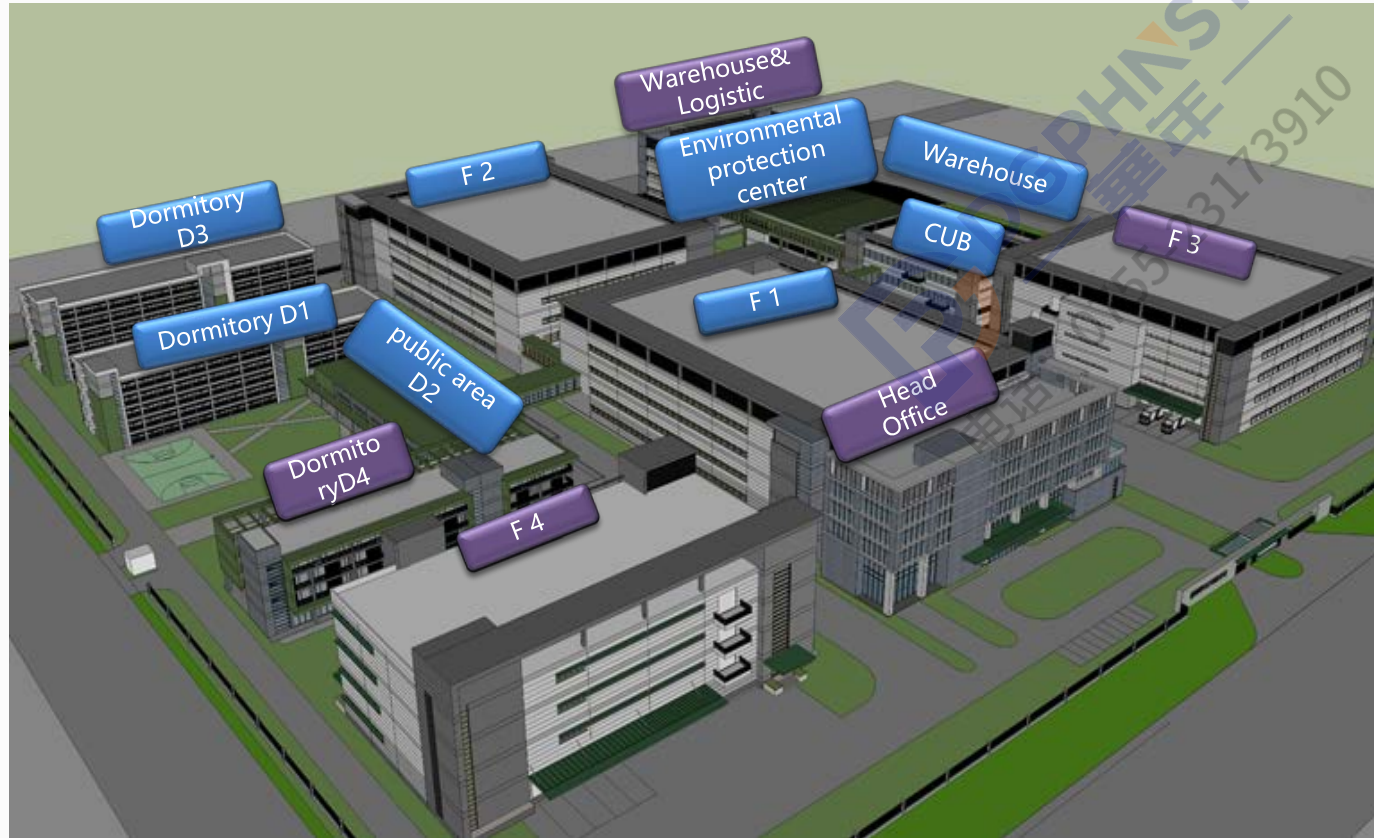
Nantong Factory

National sewage treatment plant



- Nantong Plant started production on May 1, 2017 formally.

LIZ Electronics' Development---5

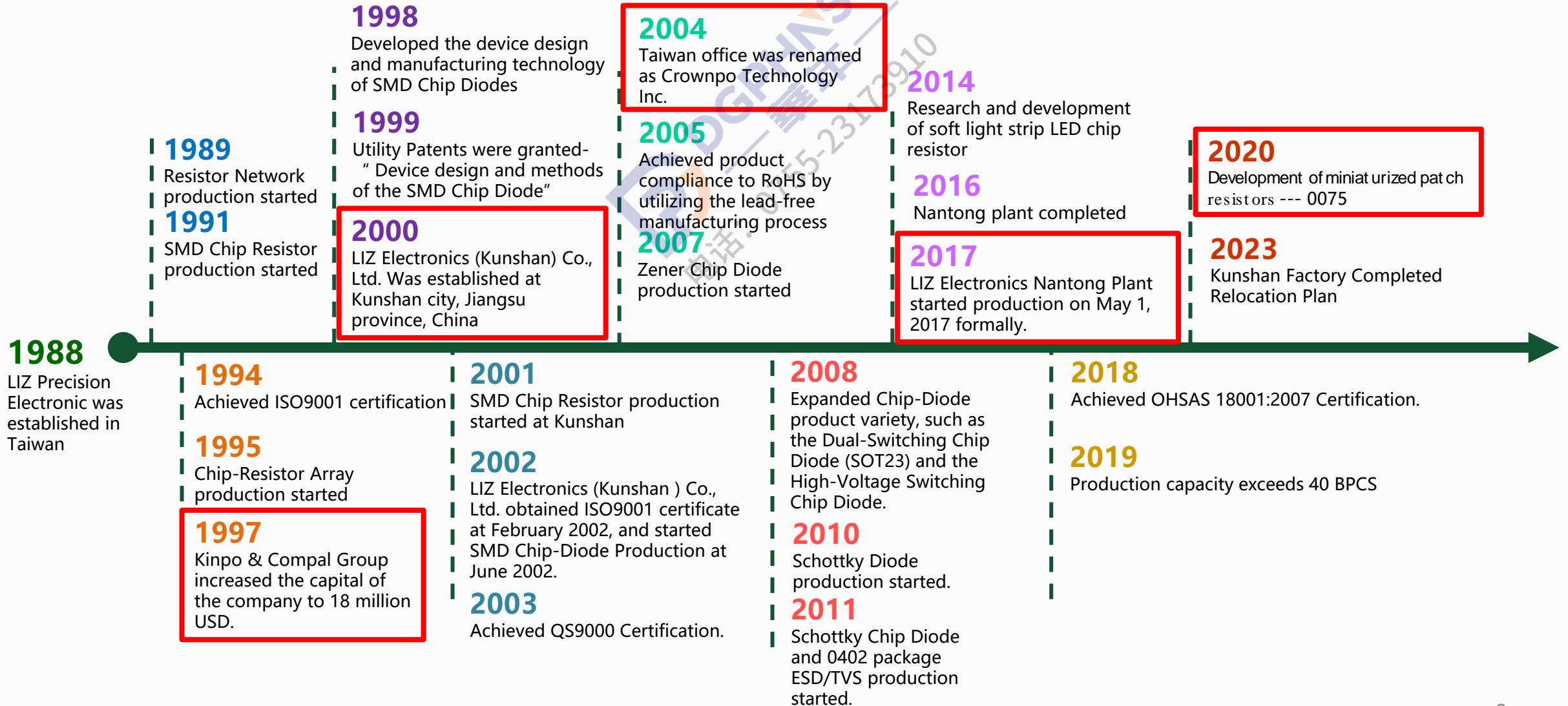


- Finished**
- Planning**

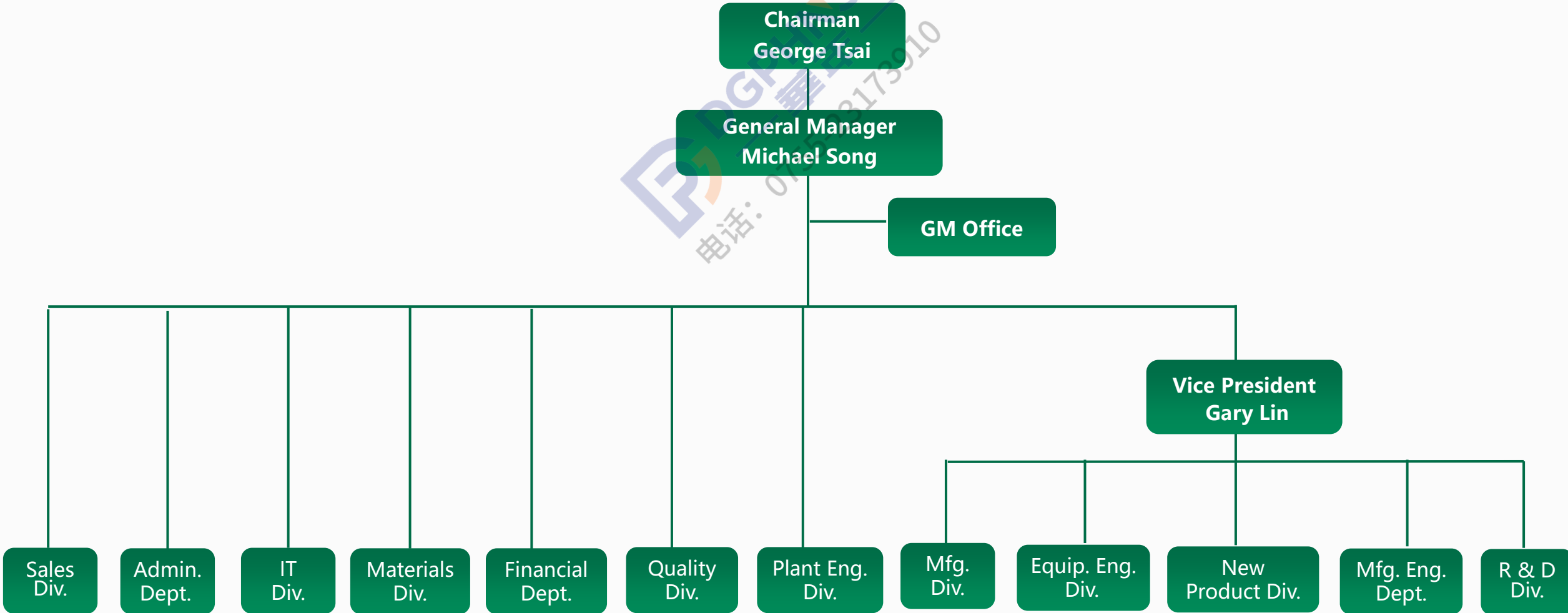
Initial Investment	USD 60Million
Established	MAY 2017
Capacity/M	33Bpcs

Nantong factory


1988~2023Y LIZ Electronics' Development



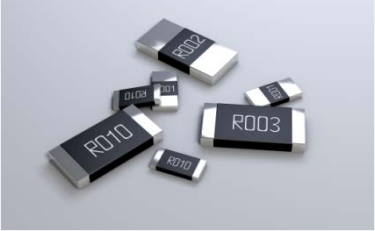

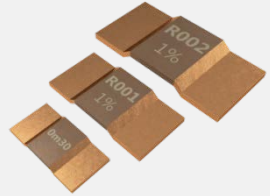
Company Organization



Chip Resistor Capacity

Product Type (inch/mm)		2023 Monthly Capacity (Billion pcs)	2024 Monthly Capacity (Billion pcs)	2025 Monthly Capacity (Billion pcs)
 <p>Chip Resistor</p>	01005 (0402)	0.2	0.2	0.3
	0201 (0603)	6	10	13
	0402 (1005)	13	18	21
	0603 (1608)	9.1	9.1	10
	0805 (2012)	7.3	7.3	8.2
	1206 (3216)	8.9	9.9	11.9
	1210 (3225) 2010 (5025) 2512 (6432)	0.4	0.4	0.5
	0402 8P4R 0603 8P4R	0.1	0.1	0.1
	TOTAL	45	55	65

Metal Current Sensing Capacity

Product Type		Monthly Capacity (Million pcs)
 <p>Metal Strip</p>	RM1206 RM2512	20 25
 <p>Metal Foil</p>	RE0805 RE1206	20
 <p>Low-Resistance Shunt</p>	RZ2512 RZ3920 RZ5930	3
Total		68

Patented Chip Diode Capacity

Product Type		Monthly Capacity (Million pcs)
	Switching	500
	Zener	100
	Schottky	50
	Total	650

Chip Resister—Series (1)



● High Power Thick Film Chip-R [CH2512 2W](#)

Chip Resistor—Series (2)



RW—Series



Wide Terminal Thick Film
Chip-R
0612—1225



CR—Series



Low Thick Film Chip-R
0402—2512



PF—Series



Total Lead Free
Thick Film Chip-R
0201—2512

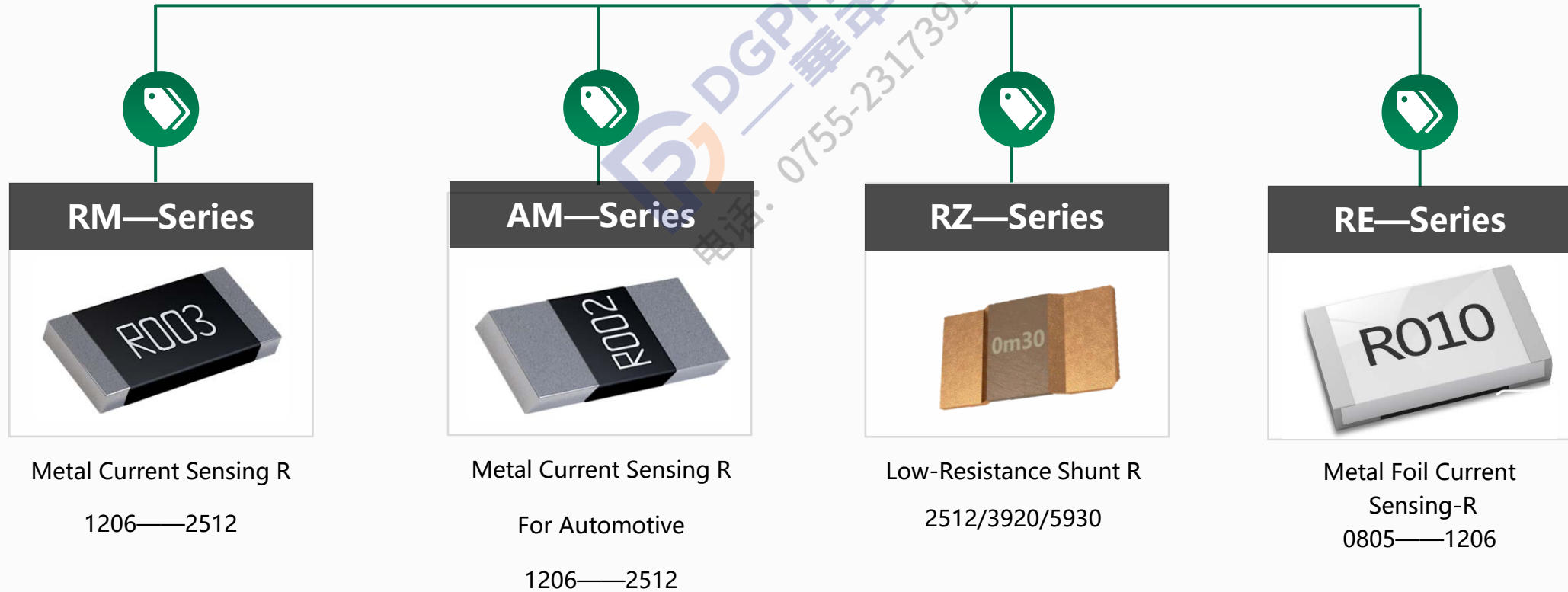


AS—Series



Anti-Sulfuration
Thick Film Chip-R
0201—2512

Chip Resister—Series (3)



Chip Resister—Series (4)



- High Voltage Thick Film Chip-R
CV 1206 UL certification

Application of chip resistor



Mobile / Wearable
CR/AS/PF/RM/RZ



Computer / Netcom
CR/CA/CD/RM/AM



Medical
CR/AS/PF/RM/RZ/RE



Household appliances
CR/AS/PF/RM/AM



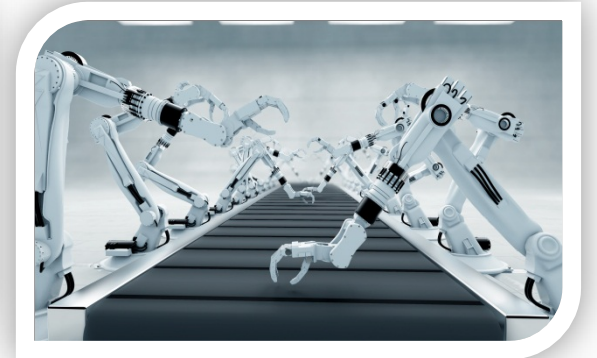
Base station
CR/AS/RM/RZ/AM/CV



Lighting
CR/AS

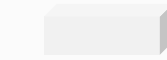
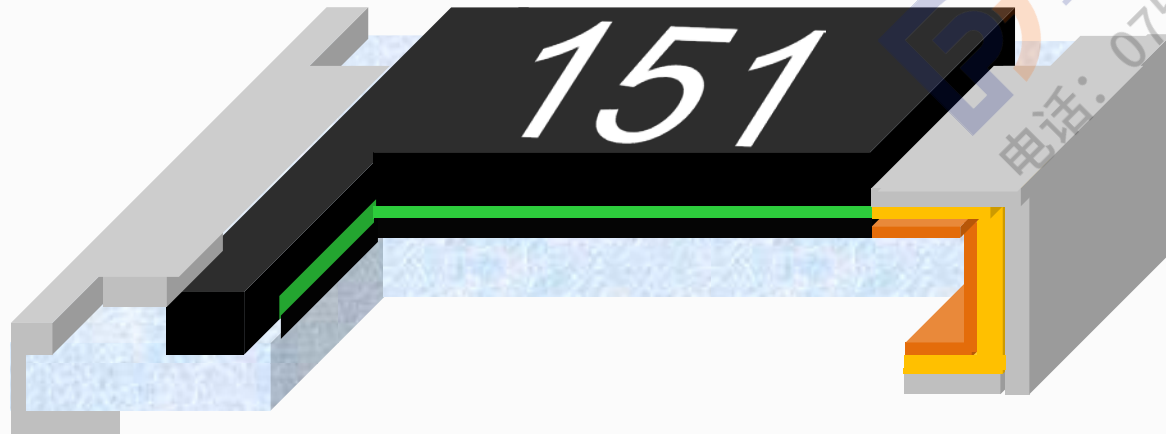


Automobile
AQ/RS/CH/RM/AM/RZ



Industry
CR/AQ/RS/CH/RM/RE/AM/CV

Chip Resistor Series Process



Marking



Inside protective layer



Silver electrode



Nickel plating layer



Outer protective layer



Resistance layer

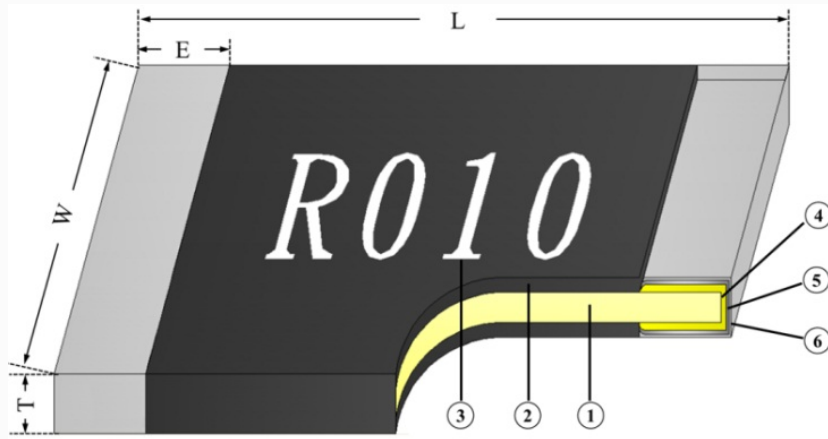


Ceramic substrates



Tin coating

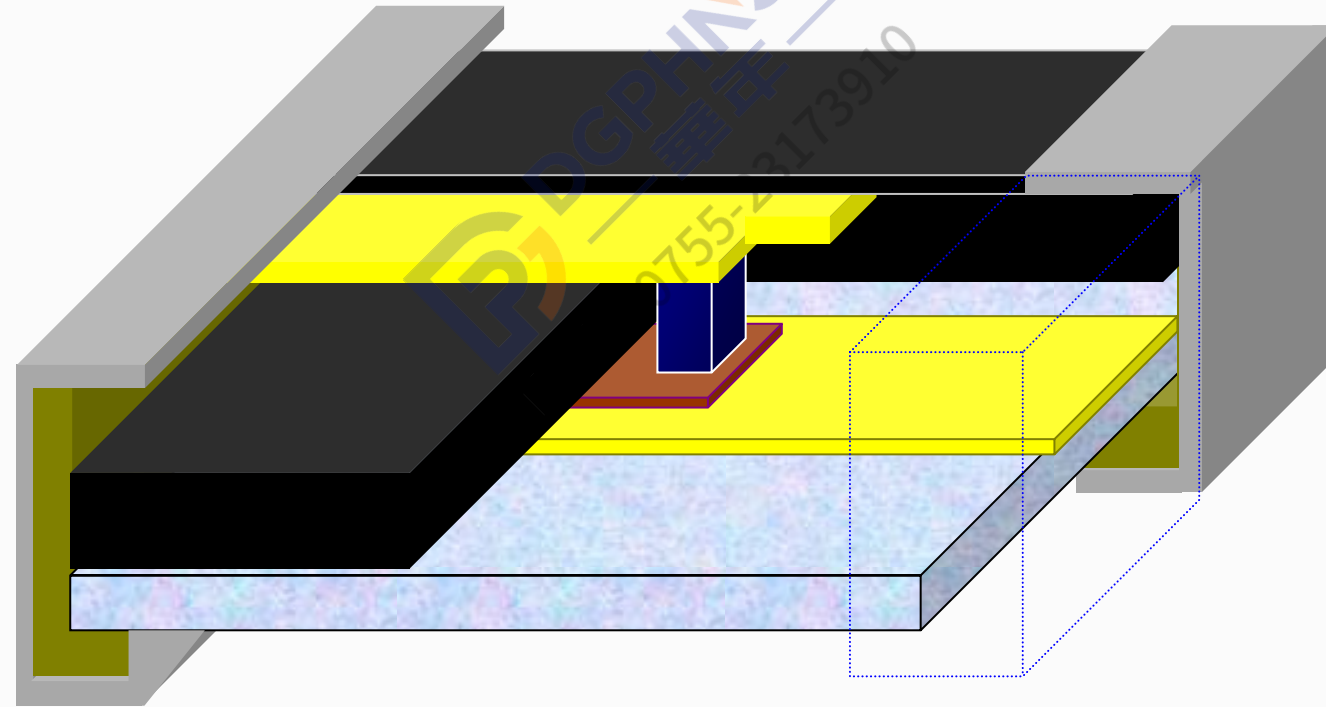
RM Series Process

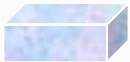








Stamping, die pressing, copper plating process, stable and smooth product structure, provide good operation for the user's automatic assembly equipment, reduce the defective rate

No	Construction	Major Material
1	Resistive layer (Metal Alloy)	Metal Alloy
2	Protective layer	Epoxy
3	Marking	Epoxy
4	Cu plating layer	Cu
5	Ni plating layer	Ni
6	Sn plating layer	Sn

Chip Diode Process



- | | | | | | | | |
|---|--------------------|--|-------------------|---|--------------------|---|------------|
|  | Ceramic substrates |  | wafer |  | Silver conductor |  | NiCr alloy |
|  | Epoxy |  | Silver conductive |  | Nickel/tin coating | | |

LIZ Advantage

Plating Line

- NT can expand to 24 line
(Now owns 7line+2 Cu line)
- Automated production line

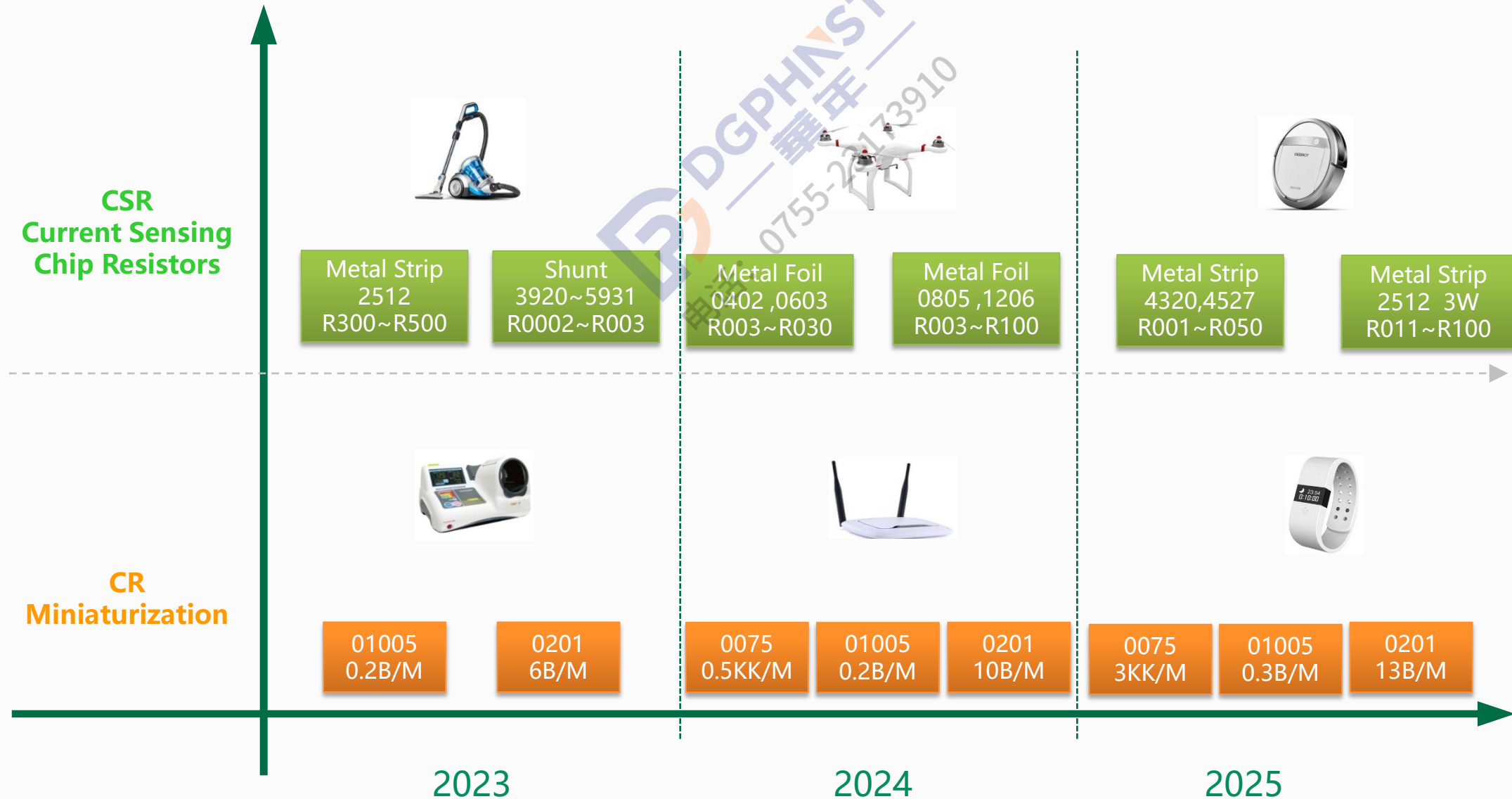
R&D Ability

- China(KS/NT)
- Taiwan(KH---Li-Cheng Materials Corporation)
- Co-work with Taiwan Industrial Institute

Product Line

- Full series of Chip Resistor
- R & D and production of ultra small resistor 0075
- New package of Patent Chip Diode

Product Roadmap 2023 ~ 2025



Superior Partner





LIZ

Your Best Choice

(Process Management)

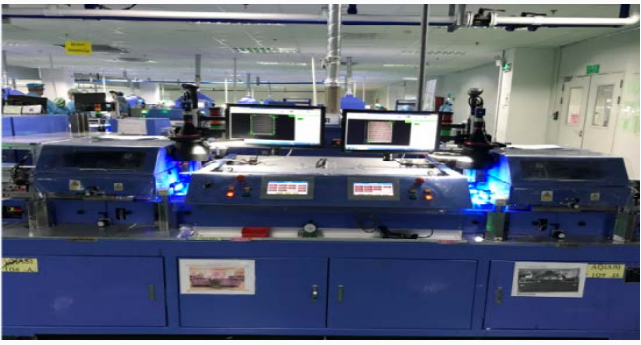
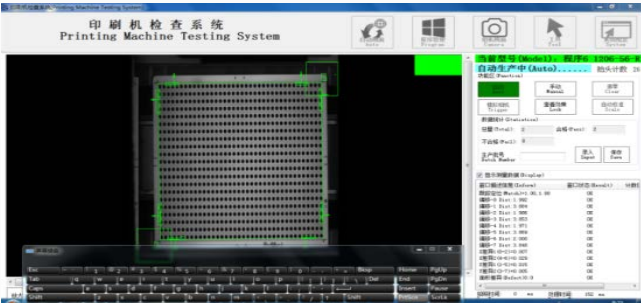

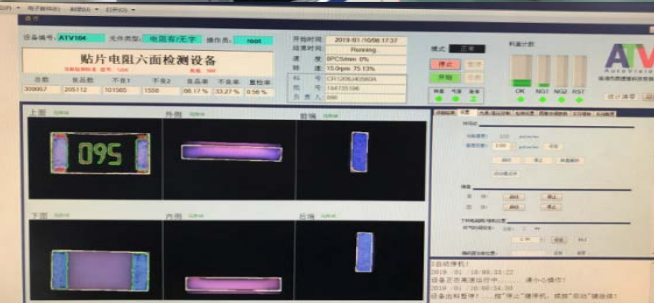
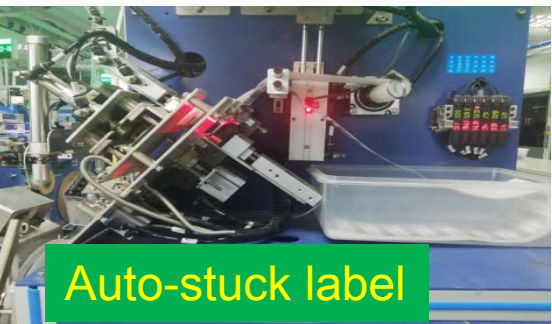
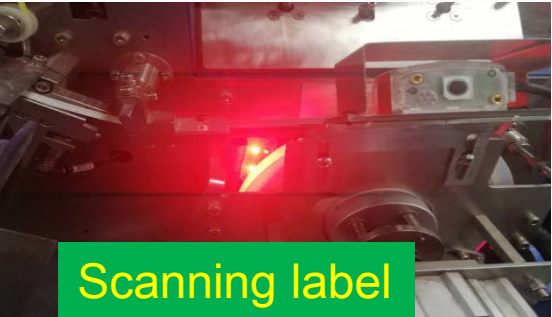

Why engage LIZ as a superior partner

- Valuable **Plating Resource** :
 - **24 plating lines capacity** which waste water discharge approved
 - **Allowed Cu-plating** , LIZ is one of rare approved passive component makers in China
- NT can expand to 24 line (Now owns 7line+2 Cu line)

Normal Line	0201 Line	Automotive Line	Cu-plating line
			

Why engage LIZ as a superior partner - Bare-eye Inspection free

- Optical CCD 100% sheets inspection install on printing M/C
- Optical six-side color CCD 100% pcs inspection between plating and taping process for automotive products
- Optical CCD 100% pcs inspection install on taping M/C
- Auto-stuck and bar-code scanning labels device installed taping M/C

Printing M/C	6-side color CCD M/C	Taping M/C	
 	 	 <p data-bbox="1549 903 1918 961">Auto-stuck label</p>  <p data-bbox="1561 1232 1893 1289">Scanning label</p>	 <p data-bbox="2122 1232 2402 1289">CCD Device</p>

Why engage LIZ as a superior partner - **Manual Setting free**

- Setting process parameters via Bar-code scanner in Laser-trimming/plating / taping process.

Laser-trimming	Plating Process	Taping process																								
 	  <table border="1" data-bbox="1003 906 1477 1222"> <caption>料号投入</caption> <thead> <tr> <th>成品编码</th> <th>生产数量</th> <th>扫描</th> <th>成品编码</th> <th>生产数量</th> <th>扫描</th> </tr> </thead> <tbody> <tr> <td>CR0805FS220V</td> <td>190460730</td> <td></td> <td>CR0805FS220V</td> <td>190510964</td> <td></td> </tr> <tr> <td>CR0805</td> <td>F</td> <td>S</td> <td>2202</td> <td>V</td> <td></td> </tr> <tr> <td>CR0805</td> <td>F</td> <td>S</td> <td>2202</td> <td>V</td> <td></td> </tr> </tbody> </table>	成品编码	生产数量	扫描	成品编码	生产数量	扫描	CR0805FS220V	190460730		CR0805FS220V	190510964		CR0805	F	S	2202	V		CR0805	F	S	2202	V		
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Lead Innovation Zero

领先 - 创新 - 完美



2023.Q3