

# Prosperity Dielectrics Co., Ltd

## 2023 Investor Conference

*(Stock code: 6173)*

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# Company Profile

## Prosperity Dielectrics Corp :

- Established June, 1990
- Capital NTD 1.72 Billion
- Employee 886
- Brand PDC
- Revenue Y2022 NTD 4.14 Billion  
Y2023 H1 NTD 1.85 Billion



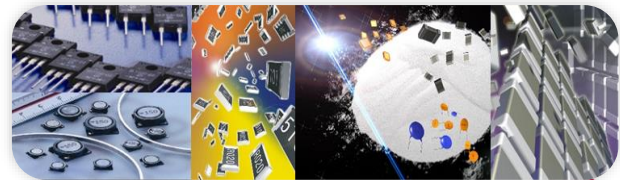
## Branch Office/ Plant :

- Taiwan Taoyuan / Yangmei Plant
- China Wujiang Plant  
/Dongguan Office



## Production experience :

- MLCC/CR Since 1990 (33 years)
- Powder Since 1995 (28 years)

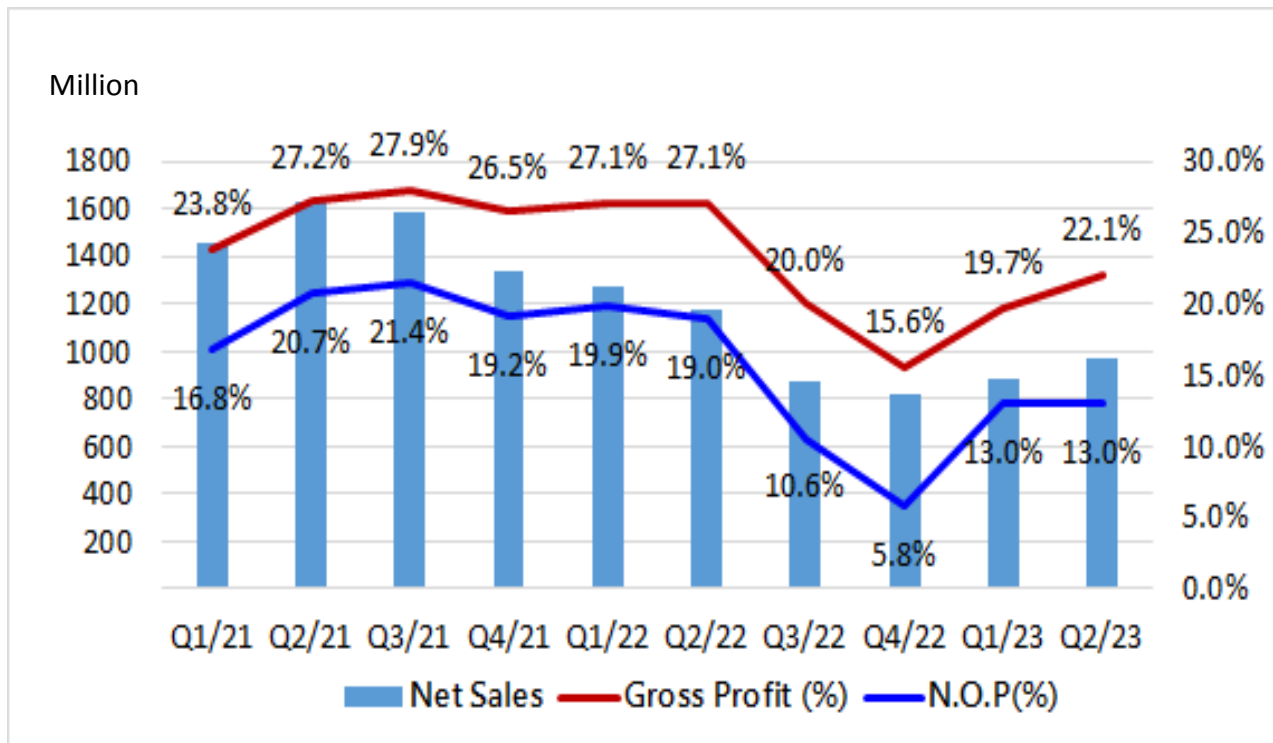


# Income statement

In Million NTD Except NTD for Earnings Per Share

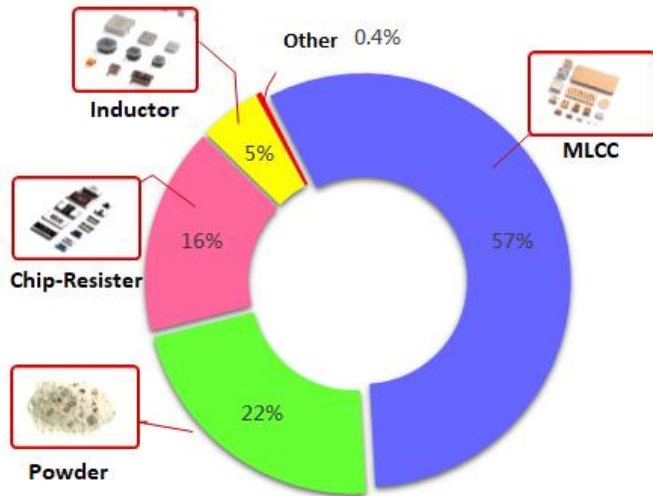
	2023 Q2	2023 Q1	QoQ	change(%)	2023 H1	2022 H1	YoY	change(%)
Net Sales	966	880	86	10%	1,846	2,446	(600)	-25%
Gross Profit	214	174	40	23%	387	662	(275)	-42%
Gross Profit(%)	22.1%	19.7%	2.4%		21.0%	27.1%	-6.1%	
Operating expense	88	59	29	49%	147	186	(40)	-21%
N.O.P	126	115	11	10%	241	476	(236)	-49%
N.O.P(%)	13.0%	13.0%	0.0%		13.0%	19.5%	-6.4%	
Non-operating income	65	64	0	1%	129	9	119	1267%
Income Before Tax	190	179	12	6%	369	486	(116)	-24%
Net Income	148	150	-1	-1%	298	398	(100)	-25%
Net Income(%)	15.4%	17.0%	-1.7%		16.1%	16.3%	-0.1%	
EPS(NTD)	0.87	0.87	0		1.74	2.32	(0.58)	

# Revenue & Margin rate Trend

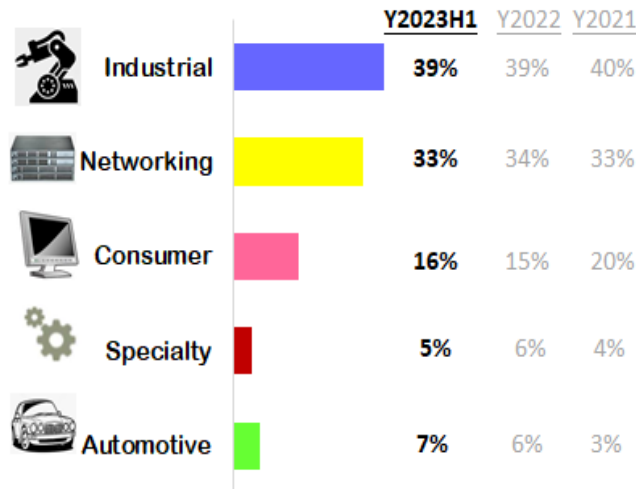


# 2023 H1 Sales Breakdown

## By Product



## By Application



- Application segments such as Networking, industry, automotive, aviation, medical and consumer electronics and other related industries.
- Safety/high power/high temperature resistance/high reliability/low loss passive-component products and dielectric ceramic powder are the company's main products.

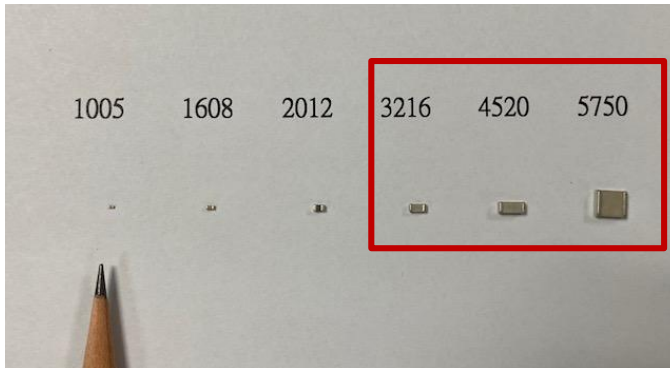
# Business Focus & Opportunity

## 2021~2025 MLCC Demand Estimation

Data source: Fuji Chimera Research Institute

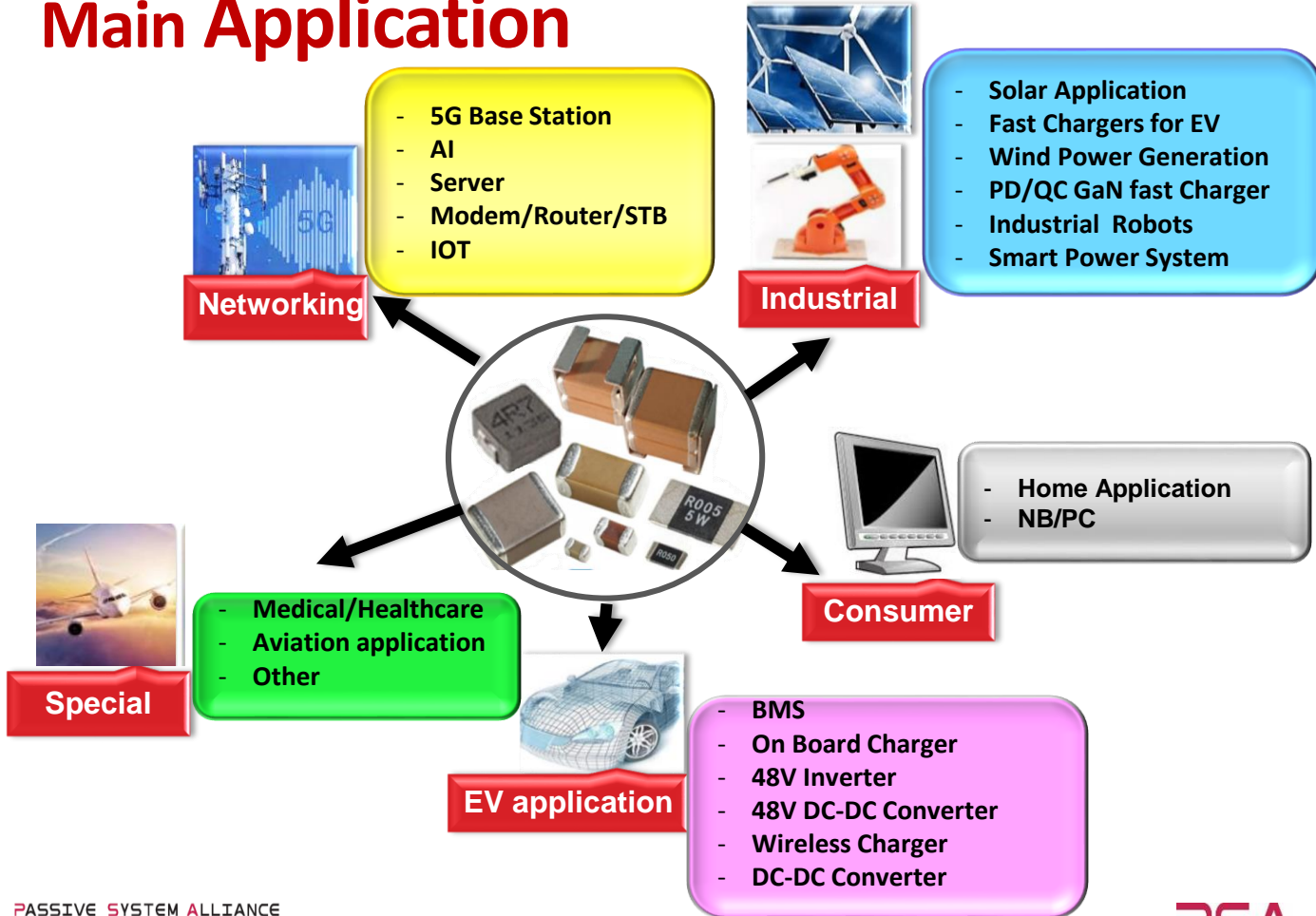
unit:Million

Year Size	2021	2022	2023	2024	2025	Average growth rate	Average consumption %
<3216	5,033,000	5,298,000	5,523,000	5,720,000	5,867,000	3.31%	96.05%
>=3216	217,000	222,000	227,000	230,000	233,000	1.47%	3.95%
合計	5,250,000	5,520,000	5,750,000	5,950,000	6,100,000	3.82%	100%



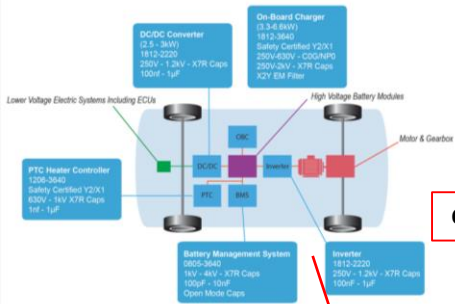
- Generally, large-size MLCC and Chip-R, by industry' s definition, are mainly 3216 (length 3.2mm \* width 1.6mm) or up (inclusive).
- PDC mainly focuses on the production of large-size passivecomponents. Although the demand only accounts for 4% of the total MLCC quantity, its ASP is about 10 times that of other small-size MLCCs.

# Main Application



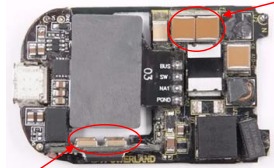


# GaN, SiC propel the development of large-size, high-power, passive components



Chip size : 3216~5750 / 50V~2000V

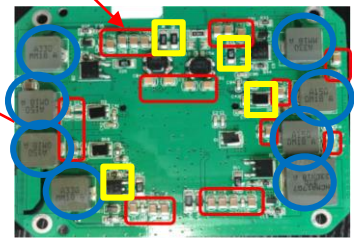
5750 size MLCC



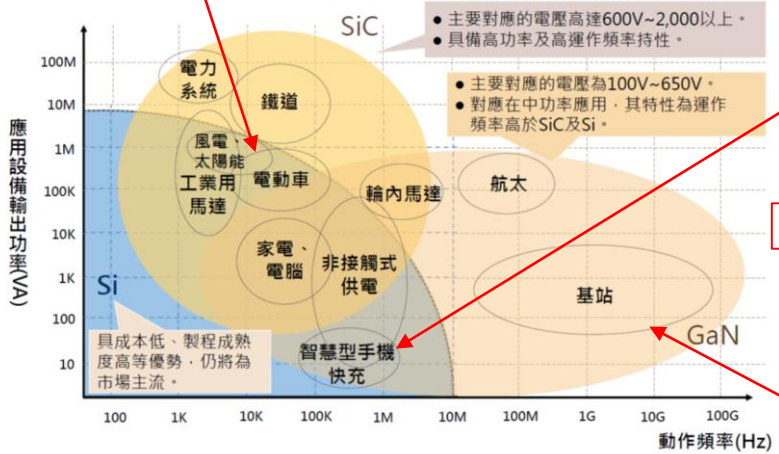
EMI Safety 4520 Size MLCC



Chip size : 3225

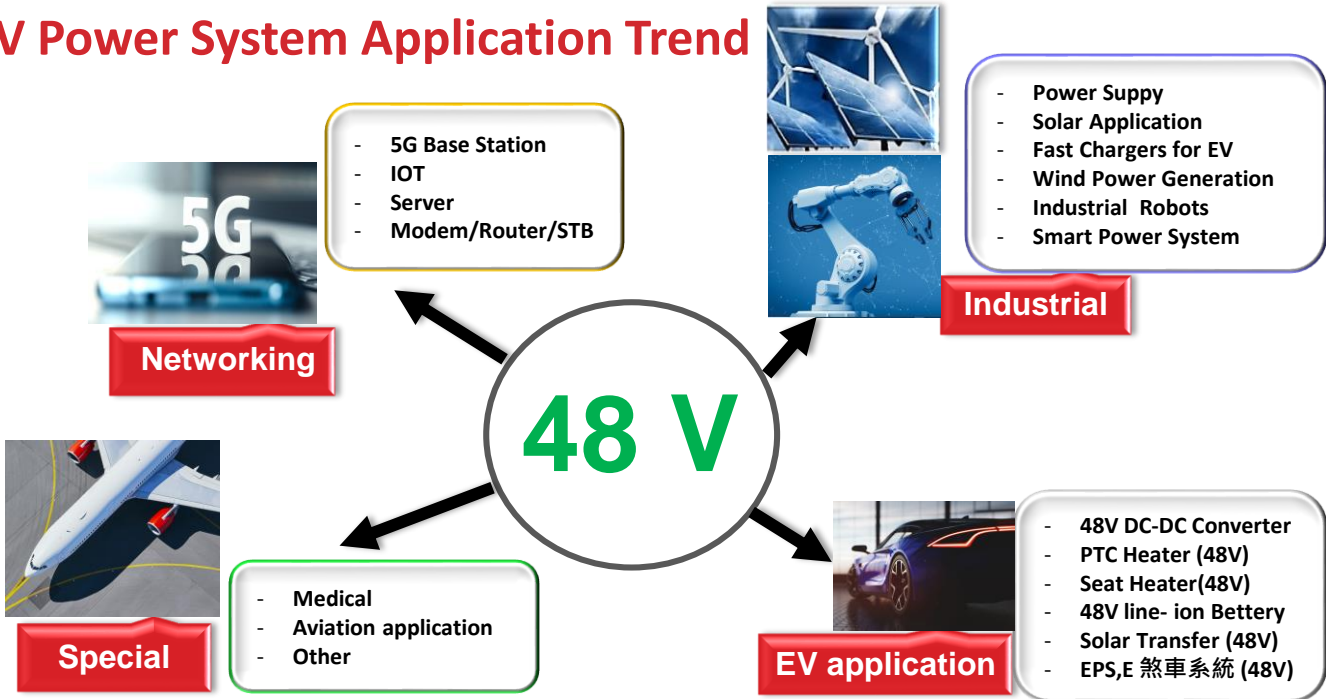


Small cell base station



Source: DIGITIMES Research

# 48V Power System Application Trend

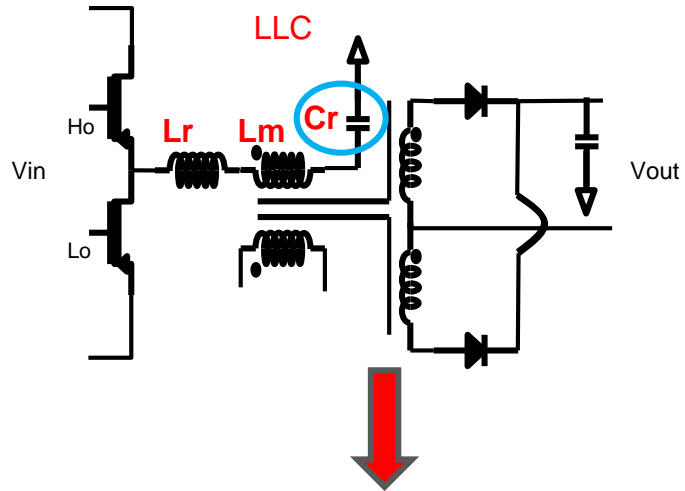
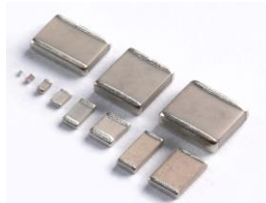


- The 48V power input and output system needs to apply 100V large-size MLCC and special resistors
- High-Power, High Voltage, Current Sensing resistors



# LLC Circuit Application

LLC applications are mainly used in wired and wireless charging devices such as EV OBC, charging piles and future EV wireless charging



For large size NPO MLCC above 3216, will replace of film capacitors



# Opportunity

- Looking forward to 2023 H2, with the increasing demand for EV, Charging Station, Edge AI Hardware, Data Center, and IOT, the application opportunities of large-size MLCC and Chip-R for PDC will increase.
- With the widespread use of the third-generation semiconductor gallium nitride (GaN) and silicon carbide (SiC), the market application opportunities for PDC high-power large-size passive components are gradually increasing.
- High-end application products such as EV OBC and future car wireless charging are designed with large size and high voltage NPO MLCC to replace the original film capacitor design.
- The application of radio frequency components for 5G applications has increased significantly, which has led to an increase in the demand for LTCC ceramic powders.

# Business Focus

- MLCC、Chip-R、Powder –
  - In response to current customer needs and changes in terminal applications, PDC continues to develop large-size and medium-to-high voltage MLCCs, Chip-R.
  - With independent material development and process technology capabilities, PDC can effectively cooperate with medium-high voltage and large-size special MLCC to introduce high value-added markets, and reduce costs to enhance competitiveness.
- Dielectric Powder–
  - Continue to develop high-temperature, high-voltage, high-capacity, and special-application MLCC dielectric ceramic powder.
  - In response to the growing demand of 5G and AI application markets, continue to develop high-end and special application microwave powder.
  - Continue to develop LTCC materials for various series of RF/high frequency components and MLCC dielectric ceramic powder for Cu electrode process .
- Continue to integrate products and expand sales through the PSA platform.

# Thank you!

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