

JOYIN Catalogue - Aldinet

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	Company Profile	



Company Profile

TWSE: 8029



Walsin Lihwa Group

2021 Walsin Lihwa Group Revenue US\$15 Billion

- 14 Listed Companies in TWSE
- Market Cap \$19.3B (2021/12/31)
- Top 20 Group in TWSE

\$1B winbond \$3.6B \$5.6B

Walsin Lihwa



- Material Cable
- 2021 Revenue \$5.6B
- EST 1966

Winbond



- Semiconductor
- 2021 Revenue \$3.6B
- EST 1987

HannStar®



- TFT LCD
- 2021 Revenue \$1B
- EST 1998

PSA Group



- Passive Components & PCB
- 2021 Revenue \$4.85B
- EST 1992



PSA Group Companies and Products



Walsin Technology Corporation

Prosperity
Dielectrics Co., Ltd.

信昌電子陶瓷

INPAQ Technology Co., Ltd.

Kamaya Electric V Co., Ltd E

Walton Advanced Engineering, Inc.

華新科技

Chip Resistor

Disc Capacitor

RF antenna

MLCC Dielectric powder

MLCC

Chip Resistor

佳邦科技

Antenna Inductor Multilayer Varistor 釜屋電機

Chip Resistors Chip Fuse Film capacitors Tan capacitor 華東科技

Memory packing and testing

HannStar Board Corporation

Global Brands Manufacture Ltd. Info-Tek Corporation SILTECH Technology Corporation

ELNA Printed Circuit Co., Ltd.

瀚宇博德

精成科技

台灣精星科技

Keypad, 2D/3D glass, module and accessory

閎暉實業

ELNA

PCB

PCB PCBA **PCBA**

PCB



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PASSIVE SYSTEM ALLIANCE



WALSIN









MATSUO















8.6B_{USD}

Total Assets









Corporate Milestones



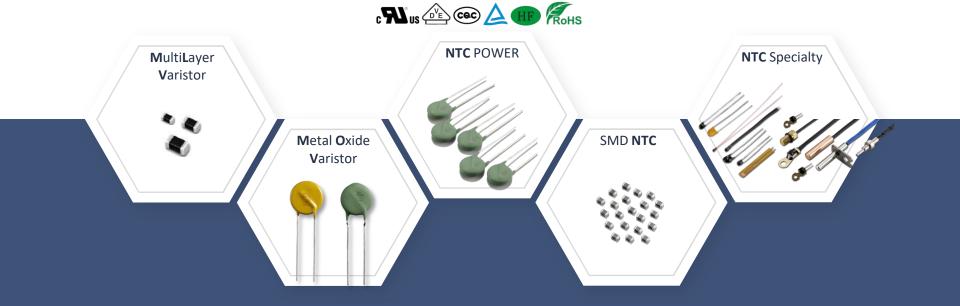
1			
	PDC of PSA Group became the major shareholder (30.4% equity)	2020	Development of Low Clamping MOV and Mass Production
	Established In in Churchi Blant Trium for	2014	SMD NTC Mass Production
202	Established Joyin ChungLi Plant Taiwan for MLV & SMD NTC	2009~2014	OEM High-Accuracy NTC Body Sensor for C company Japan
	PSA group invested Joyin Co. Ltd as major shareholder (30.9% equity)	2005	High-Accuracy NTC Body Sensor (JTD series) Mass Production
202	sitatefiolder (50.5% equity)	2005	MLV (Multilayer Chip Varistors) Mass Production
		2000~2007	OEM Varistors for Littelfuse
	Established Joyin SuZhou Plant, East China		
200	2	1996	NTC Thermistors production started
199	Established JOYIN DongGuan Co. for backend assembly, South China.	1995~2010	OEM PPTC for Tyco/Raychem USA in Taiwan
9 198	7 JOYIN Trading Company established in HK	1993	MOV (Varistors) production started
198	Established in YangMei, TaoYuan, Taiwan as Passive Components Equipment supplier	1988~1993	OEM Leaded Ceramic Capacitors for Philips Components Taiwan



Product Portfolio



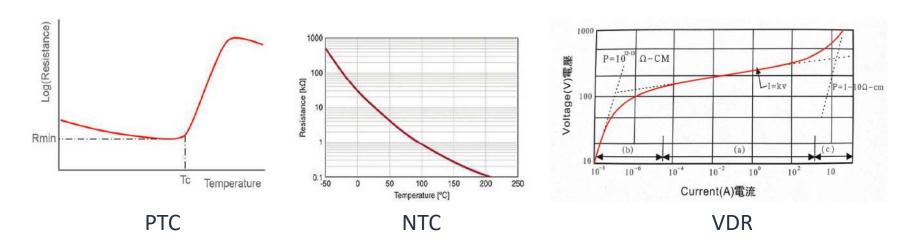
Protection Components



Aldinet

Varistor and Thermistor Characteristic





Positive Temperature Coefficient Resistor (PTCR)

Negative Temperature Coefficient Resistor (NTCR)

Voltage Dependant Resistor (= MOV, Metal Oxide Varistor)





Factories Outline













YM / Taiwan (since 1984)

USD 28.1M Reg. Cap.



10,420 M²



180 employees

CLI / Taiwan

(start Jan.2022)

5,842 M²

40 employees

DG/ China (since 1996)

USD 6.96M Reg. Cap.

12,194 M²

330 employees

(start Dec. 2021)

Share WTC GZ facility

GZ, China



Quality Assurance





1993	Awarded MOV (JVR series) Certificate by UL / CSA
1996	Awarded NTC Power Thermistor (JNR series) Certificate by UL
1997	ISO 9001 & IECQ Certificated
2001	ISO 14001 Certificated
2002	Awarded MOV (JVR series) Certificate by China CQC
2007	SONY Green Partner & TS16949 Certificate Awarded
2010	Awarded NTC Sensor (JSR series) Certificate by UL and mass production
2014	Awarded 125 $^{\circ}\!\mathbb{C}$ MOV (JVT series) Certificate by UL / VDE
2014	Awarded NTC SMD (JSN series) Certificate by UL
2016	Awarded NTC Power Thermistor 25Ø (JNR) Certificate by UL / TUV
2017	Awarded 125 $^{\circ}$ C Ultra Surge MOV (JVT U series) Certificate by UL / VDE / CQC
2018	YM (Taiwan) plant awarded IATF16949 Certification
2019	Awarded 105 °C MOV (JVZ series) & Ultra Surge low voltage MOV Certificate by UL / VDE / CQC
2023	ISO 45001 & OC080000 Certificated (TW plants)



Quality Certificate





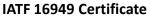
ISO 9001 Certificate

- YM, Taiwan (HQ)
- DongGuan









• YM, Taiwan(HQ)



QC 080000:2017



QC080000 Certificate
• YM, Taiwan(HQ)

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ISO 14001 Certificate

- YM, Taiwan(HQ)
- DongGuan







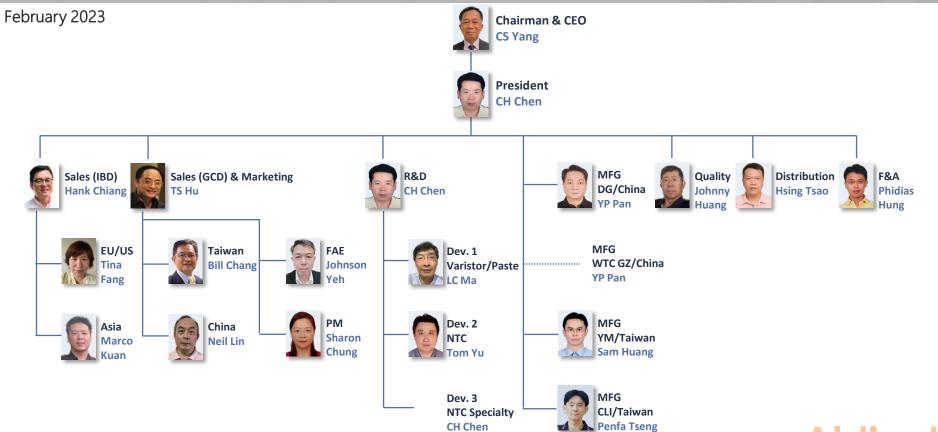
ISO 45001 Certificate

YM, Taiwan(HQ)



Organization Chart





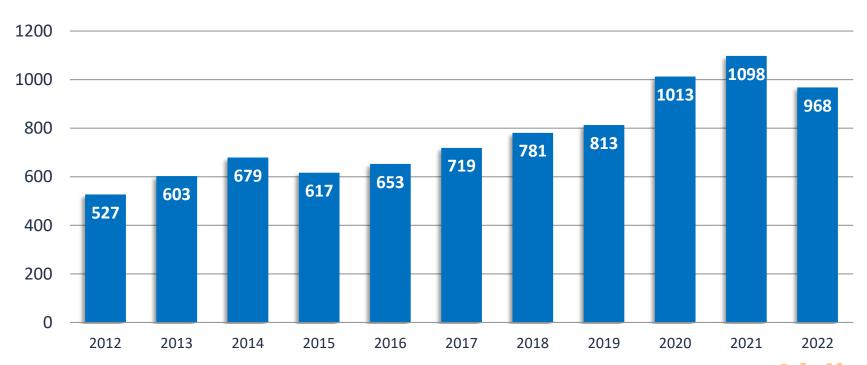
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Aldinet

Sales Milestone



Unit in M NTD



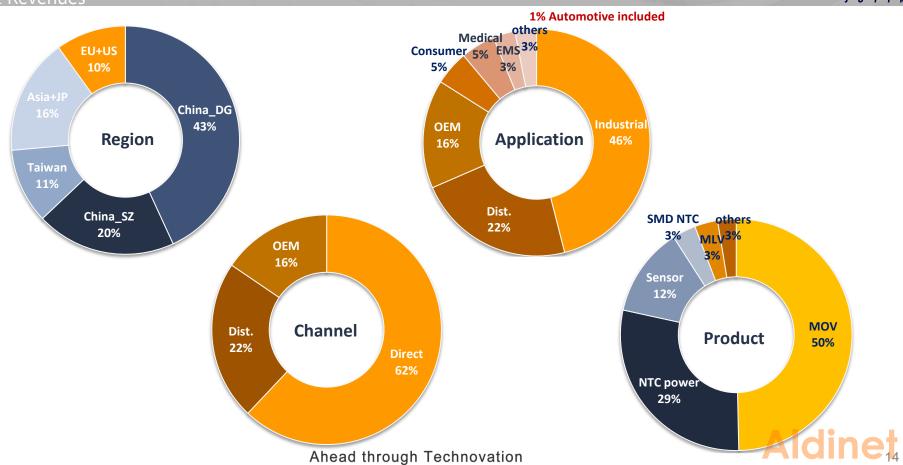


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Sales Breakdown

J O Y I N

2022 Revenues



Applications for Automotive Industry









LED Lighting



Battery Module



Air-Con System



Rearview Mirror



Auto Seating



Entertainment Audio/Video System



Security System



Instrument Panel



Wiper

Aldinet











Applications for Green Energy Industry















Inverter

PV Solar Power

Smart Meters

LED Lighting

Electric Motorcycle

Wind Farm

Applications for Power Industry



Fast Charger



Cell phone Power



NB Power



UPS Power



Switching Power Supply / Server Power













Applications for Medical Industry













Home Care Robot

Blood Glucose Meter

Ear Thermometer

Digital Thermometer

Oximeter

Applications for IoT & NB



Wearable & Smart Home Devices
IoT Node & Gateway Devices
Gaming & Entertainment
Data Center & Network Solution
Line Voltage Protection



Notebook



Keyboard



Motherboard









Surge Protection

ESD Protection

Inrush Current Limiting

Temp. Sensing



Applications for Home Appliance











LCD TV

Microwave

Washing Machine

Refrigerator

Vacuum Cleaner









Air Conditioner

Heater

Coffee Machine

Sweeping Robot













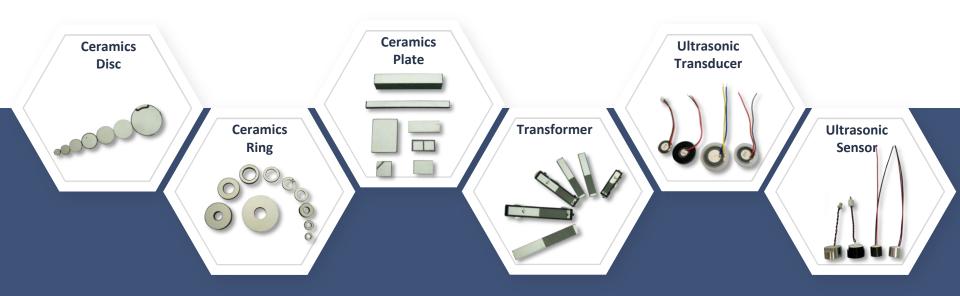
Inrush Current Limiting



Product Portfolio



Piezoelectric Ceramics



Aldinet

Piezoelectric Ceramics Application



Piezoelectric Ceramic JZP series - Disc & Ring



Dimension: Ø5~50mm upon request

Frequency: 44KHz ~ 5MHz



Dimension:

OD : $\emptyset 10 \sim 38 \text{ mm upon request}$

ID: Ø5~15 mm upon request

T: 0.7~6.3 mm

Frequency: 35~148 KHz

Piezoelectric Ceramic JZL series - Plate



Dimension:

L: 4 ~ 120 mm W: 1 ~ 20 mm T: 0.2 ~ 3 mm

Frequency:

25KHz ~ 10MHz

Application:

Electromechanical conversion

e.g. Sonar

Actuator

Flow meter

Ultrasonic transducer

Ultrasonic imaging probe Fuel Engine knock sensor









Piezoelectric Devices Application



Piezoelectric Transformer JZE series



Features:

- Nonflammable
- Without EMI
- •High voltage step up ration (5~80)
- •Failure mode open circuit
- •High efficiency (>90%)
- ·Slim (<4mm)

Application:

Ionizer Static eliminator Ozone generator





Ultrasonic Sensor



Features:

Dimension: Ø 10mm, Ø 15mm

Frequency: 60KHz, 40KHz

Transmitting, receiving, dual mode

Application:

Parking sensor for automobile ADAS
Distance measurement
Security sensor
Counter

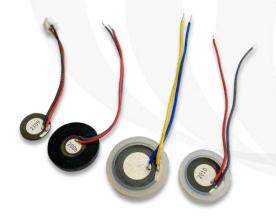




Piezoelectric Devices Application



Ultrasonic Transducer



Features:

- high frequency nebulization
- •Mist generated by high frequency vibration of piezo disc acting on water solution (1.6~2.8MHz),higher frequency finer mist particle , e.g. 2.5MHz / $5\mu m$
- •Negative ion due to high frequency vibration
- •Protective layer on piezo disc-stainless foil · Teflon · glaze

Application:

Humidifier Medical inhaler Aromatherapy nebulizer

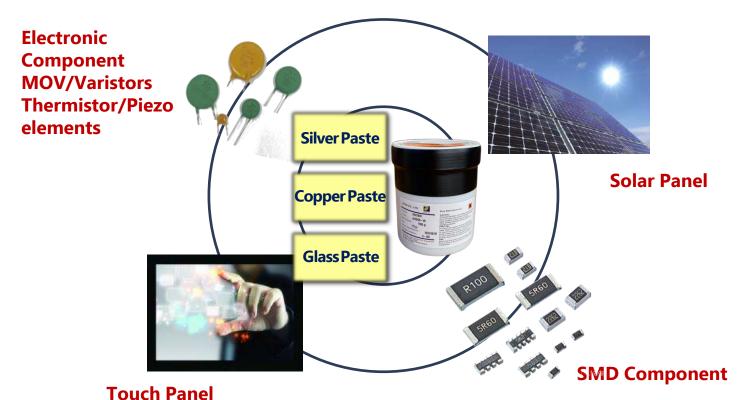






Product portfolio Paste





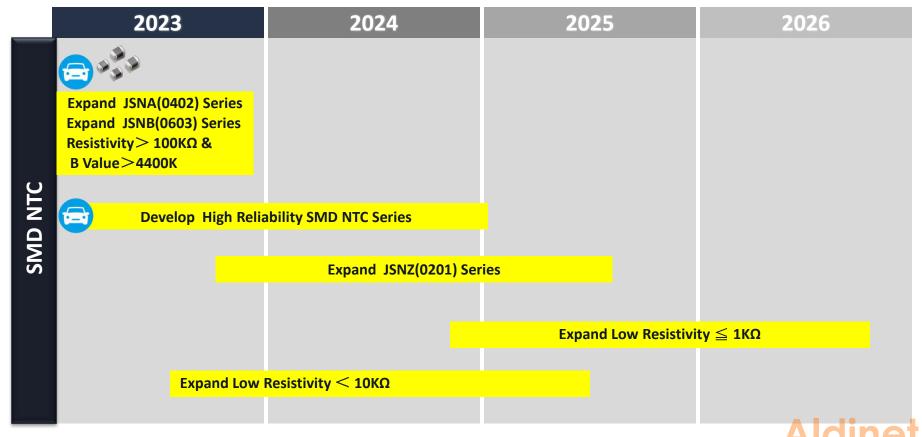
Product Roadmap (1)





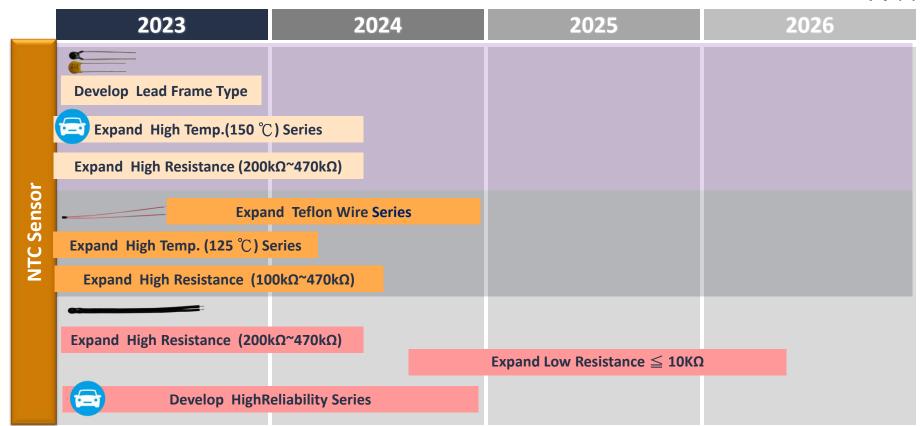
Product Roadmap (2)





Product Roadmap (3)





Automotive Quality Certificate



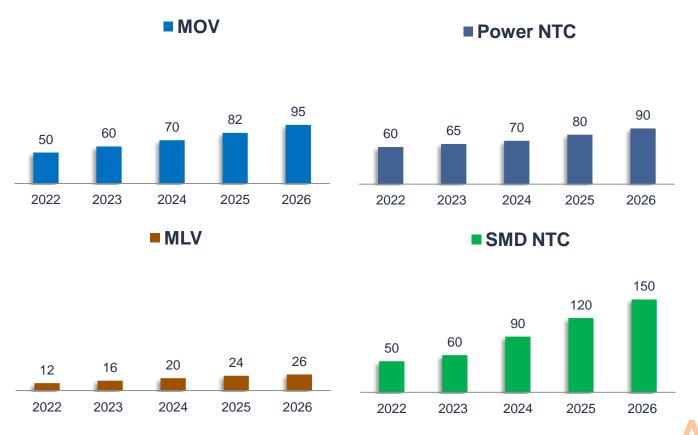
Category	Products	Joyin Series	Pictures	Location	AEC Q200	IATF- 16949	VDA 6.3
	SMD NTC	JSN series	4	TW	•	•	Dec. 2023
		JCR 03 series		TW	May 2023	0	Dec. 2024
NTC Thermistor	NTC Specialty	JSR series	-	TW	0	0	Dec. 2024
mermistor		JAT/JAS series	3 1 3 5	TW	•	•	Dec. 2024
	Power NTC	JNR series	9	DG	Mar. 2023	May 2023	Dec. 2024
Varistor	Multi-Layer Varistor	JMV series	2	TW	0	0	0
varistor	Varistor	JVT series		DG	0	May 2023	Dec. 2024



Capacity Plan

4 Years Capacity (Mpcs/month) Plan





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Key Account





ASIA



Taiwan

Europe/America

















Bel













INVENTR@NICS



















ESG Scenario





Energy usage, waste management, pollution, treatment of animals, compliance with regulations



Working conditions, gender and racial diversity, volunteer and philanthropic initiatives



Risk management, business ethics, supply chain management, staff turnover, political contributions



Thank you



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