



Highly Focus on **INNOVATION**

Dec. 2019



Inductor



Resistor



Powder



RF



ISO9001 ISO14001 IATF16949

Chilisin Milestone

1972



Established

~2001



Business Expansion

- Listed on Taiwan Stock Exchange
- Established DongGuan Factory

~2016



Globalization

- Established Vietnam Factory
- Overseas Office in America, Malaysia and Singapore

~2019



Passive Solution Provider

- Acquisition :
 - Shin Yuan Elec.(2019)
 - Mag.Layers & Magic(2018)
 - Ralec & Ferroxcube(2017)
- Established Group Production Site in Hunan



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Chilisin Group

Turnover 208MUSD

WW Ranking No. 3

Employee: 4,167

Factory Location

- Taiwan
- China
- **Vietnam**



HsinChu, Taiwan
Founded 1972



Taipei, Taiwan
Founded 1941

Turnover 70MUSD

WW Ranking No. 4

Employee: 1,325

Factory Location

- China
- **Poland**

Turnover 100MUSD

Employee: 1,506

Factory Location

- Taiwan
- China



Taoyuan, Taiwan
Founded 1990

**Y2018 Turnover:
680MUSD
Employee: 10,918**

RALEC


Kaohsiung, Taiwan
Founded 1994

Turnover 224MUSD

WW Ranking No. 3

Employee: 1,920

Factory Location

- Taiwan
- China
- **Malaysia**



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Turnover 54MUSD

DIP/Molded Pro

Employee: 1,400

Factory Location

- China



Taipei, Taiwan
Founded 1996



Kunshan, China
Founded 2004

Turnover 24MUSD

Spring Expert

Employee: 600

Factory Location

- China



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Global Service Network



Inductor



Resistor

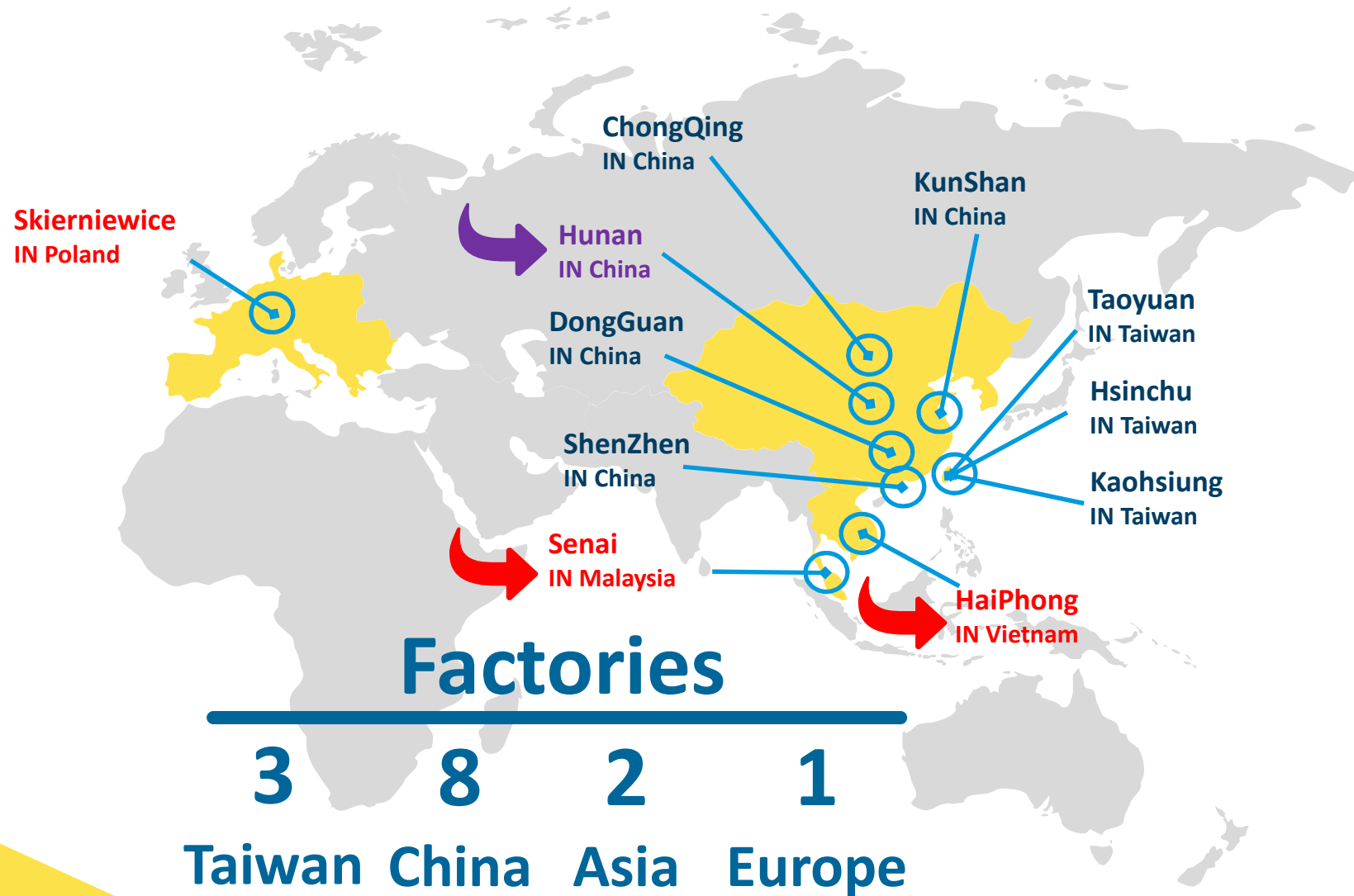


Powder



RF

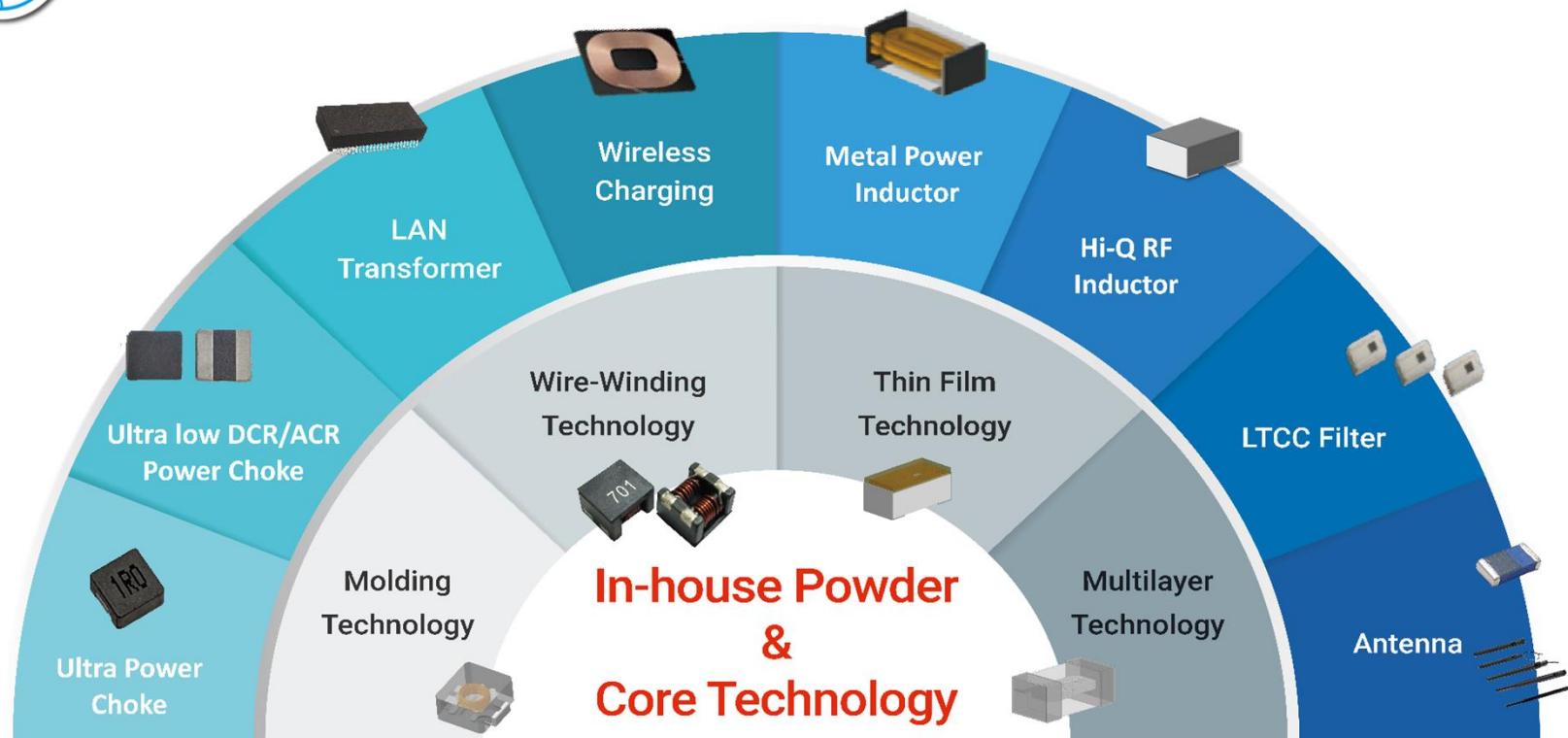
Global Manufacturing locations





ISO9001 ISO14001 IATF16949

Total Solution Provider - Inductor


Inductor⁺


Inductor



Resistor



Powder



RF

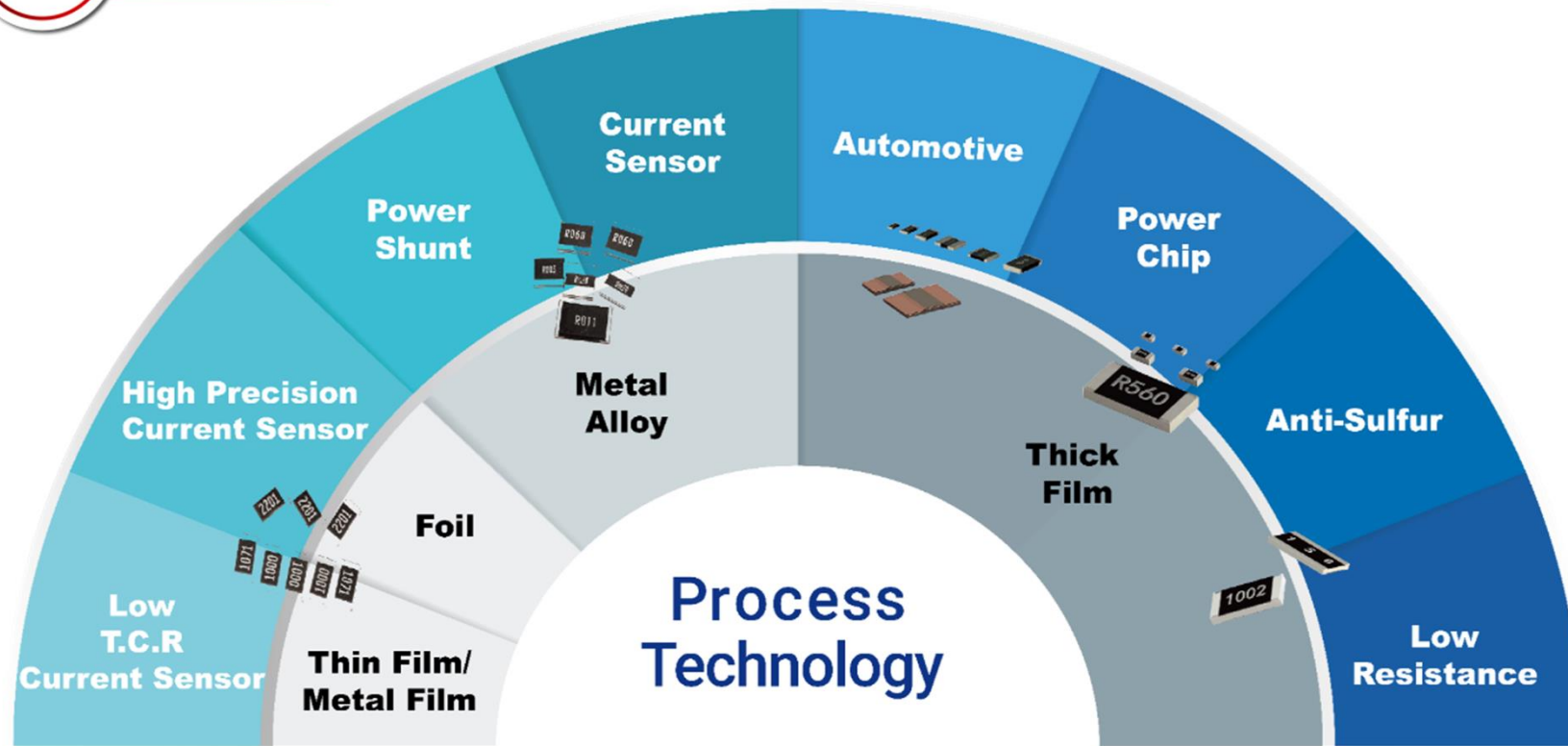
MAGIC
MAG. LAYERS
Scientific Technics Co., Ltd

FERROXCUBE
RALEC



ISO9001 ISO14001 IATF16949

Total Solution Provider - Resistor



Inductor



Resistor



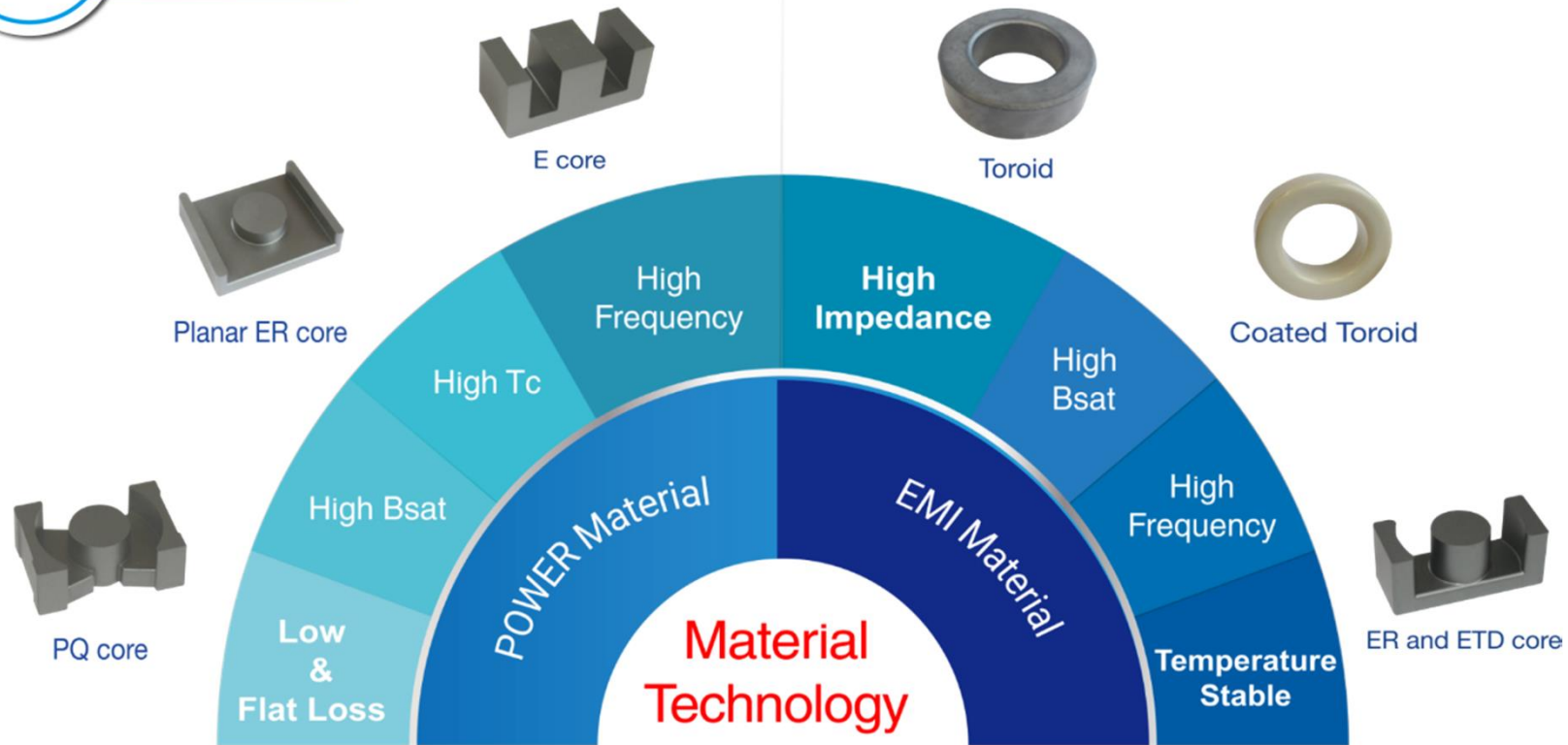
Powder



RF

MAGIC

MAG. LAYERS
Scientific Technics Co., Ltd



Inductor



Resistor



Powder



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MAGIC




MAG. LAYERS
Scientific Technics Co., Ltd

HILISIN

FERROXCUBE

RALEC

Capacity Overview

| Category | Product Type | 2018 Capacity | 2019 Capacity | 2020 Capacity |
|----------|---|---------------|---------------|---------------|
| Inductor | Unit:Mpcs/M Multilayer  | 2,500 | 3,000 | 3,000 |
| | Wire-winding  | 360 | 360 | 360 |
| | Molding  | 780 | 780 | 880 |
| | Thin Film  | 250 | 250 | 250 |
| | Through-Hole  | 100 | 100 | 100 |
| Filter | Unit:Mpcs/M LTCC Filter  | 40 | 120 | 200 |
| Resistor | Unit:Mpcs/M Chip Resistor  | 25,000 | 36,000 | 36,000 |
| | Metal CSR  | 100 | 100 | 100 |
| Ferrite | Unit:Tons/Y Powder  | 18,000 | 18,000 | 18,000 |
| | Ferrite  | 11,400 | 11,400 | 11,400 |



Inductor



Resistor



Powder



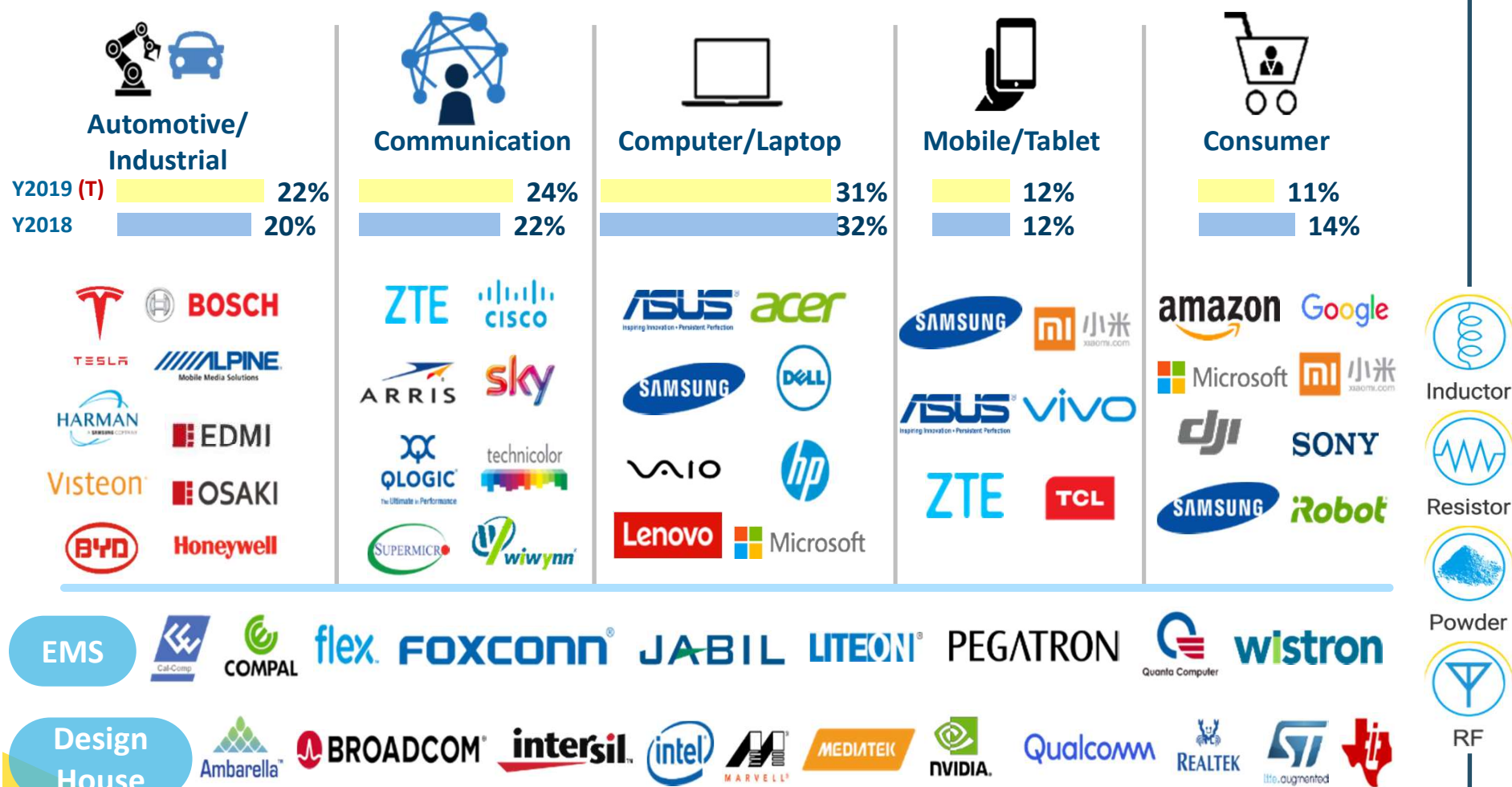
RF

※ Antenna manufacturing mix with various technologies for customization



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Group Revenue Stream



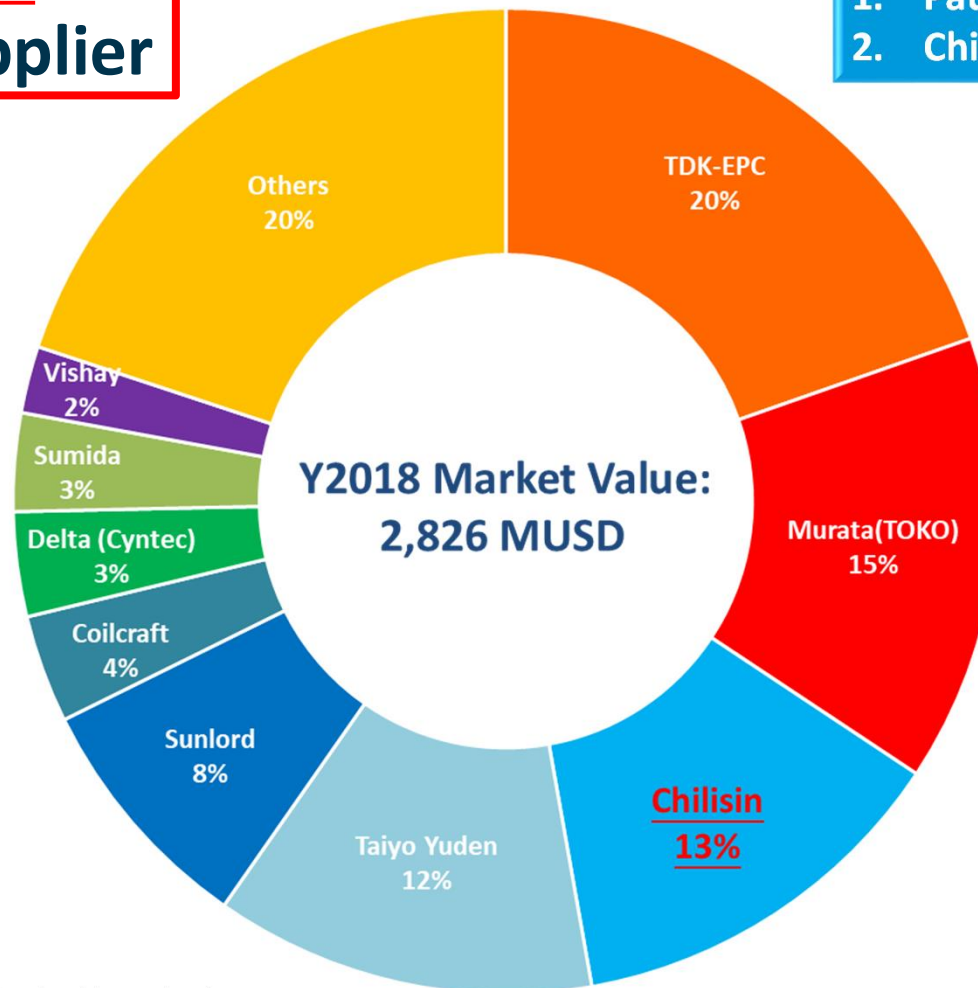
Stronger Inductor Market Position

Chilisin_2019

**WW No.3
Inductor Supplier**

Source:

1. Paumanok (2019)
2. Chilisin Estimate



Inductor



Resistor



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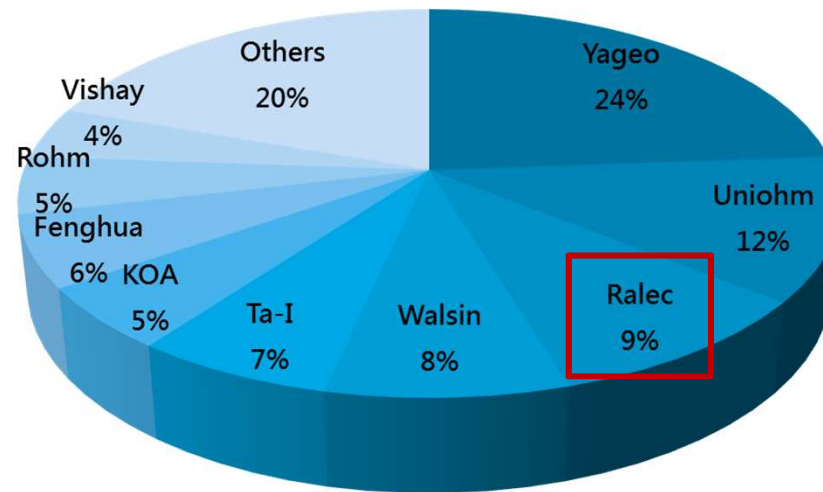
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(Ranked by value)

● Product : Multilayer, Power, SMD/Chip Inductors, EMC Filters, Beads

RALEC – Leading Resistor Supplier

- WW **No.3** Chip Resistor Supplier
- Leading position of Metal Current Sensor
(100Mpcs/Month Capacity)
- Various **Specialty** for all applications
 - Sulfur Resistant Chip Resistor
 - Automotive Grade Resistor
 - Thin Film Resistor
 - Precision Resistor
 - High-Power Resistor
 - Wide-Terminal Resistor
 - 4-Terminal Resistor
 - Array Resistor
 - Metal Strip Current Sensor
 - Metal Film Current Sensor



Ranked by Capacity



Inductor



Resistor



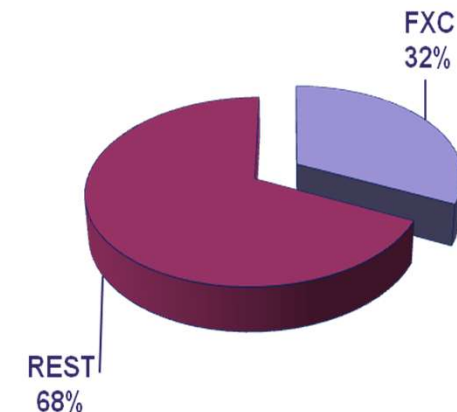
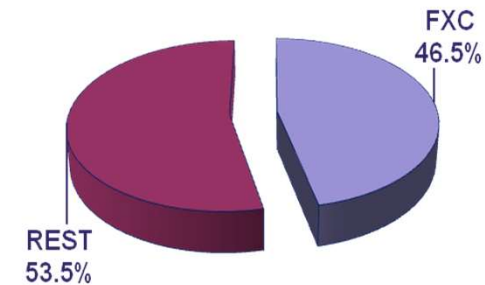
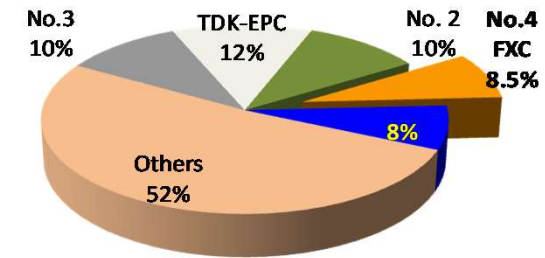
Powder



RF

Ferroxcube – Ferrites Innovator

- WW No.4 Ferrite maker and dominate No.1 position in Europe and USA
- Wide range offering in Power & EMI material and act as leading position of high performance material provider
 - The best Bsat ferrite Power material in all kind of working frequency
 - The best high frequency Power material
 - (200KHz ~ 3MHz) in AC-DC or DC-DC application
 - The best frequency stability (Impedance) EMI material @ higher TC (Curie Temperature -130 deg)
- Recognized by leading EV/PHEV car makers



Inductor



Resistor



Powder



RF

Thank you for your time and attention!



Total Solution Provider for Power, EMI and RF.

Thank you!