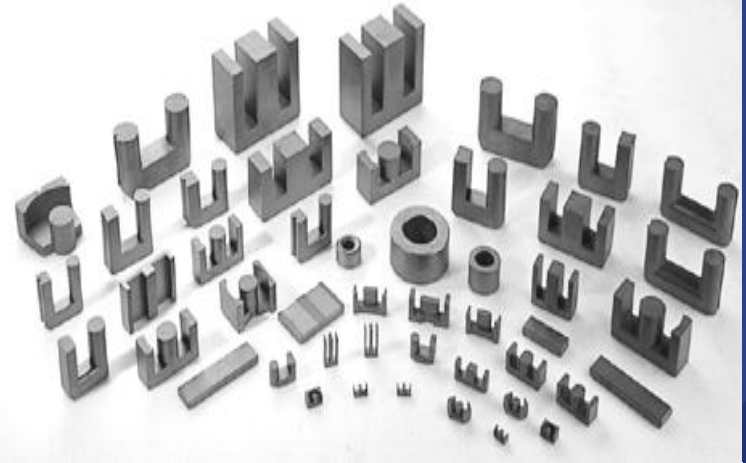




# MARTIN TRADING



## LARGE COMPANY

The company covers an area of 16,440 square meters, has more than 2,000 employees, 8 production plants, 2 branch offices and 1 professional testing center. The assets are RMB 250,000,000.



## QUALITY CERTIFICATION

We have passed ISO9001:2000, QS900 quality system certification and TS16949 quality control system.



## EXPORT LICENSE

We have passed ISO9001:2000, QS900 quality system certification and TS16949 quality control system.



## ODM&OEM

We have a technical team to develop molds according to customer requirements. Our R&D centers can also design different magnetic applications based on the customer's application.

**CONTACT: Sophia Ding**  
**TIME: 2023.1**

- 1、 Company over view
- 2、 Product Process Flow
- 3、 Product Classification
- 4、 Product Application Scenario
- 5、 Related Products
- 6、 Product Prospect

TIANCHANG MARTING TRADING CO,. LTD.

CONTENTS

目录

01

# Company over view

PART. 01

# Company over view

## **A professional ferrite and magnetics components manufacturer**

- Focused in magnetics components design and manufacturing.
- The chain from ferrite material to finished components.
- Most advanced automatic producing line and strong producing capability
- Total solution supporting of the magnetics components.



# 02

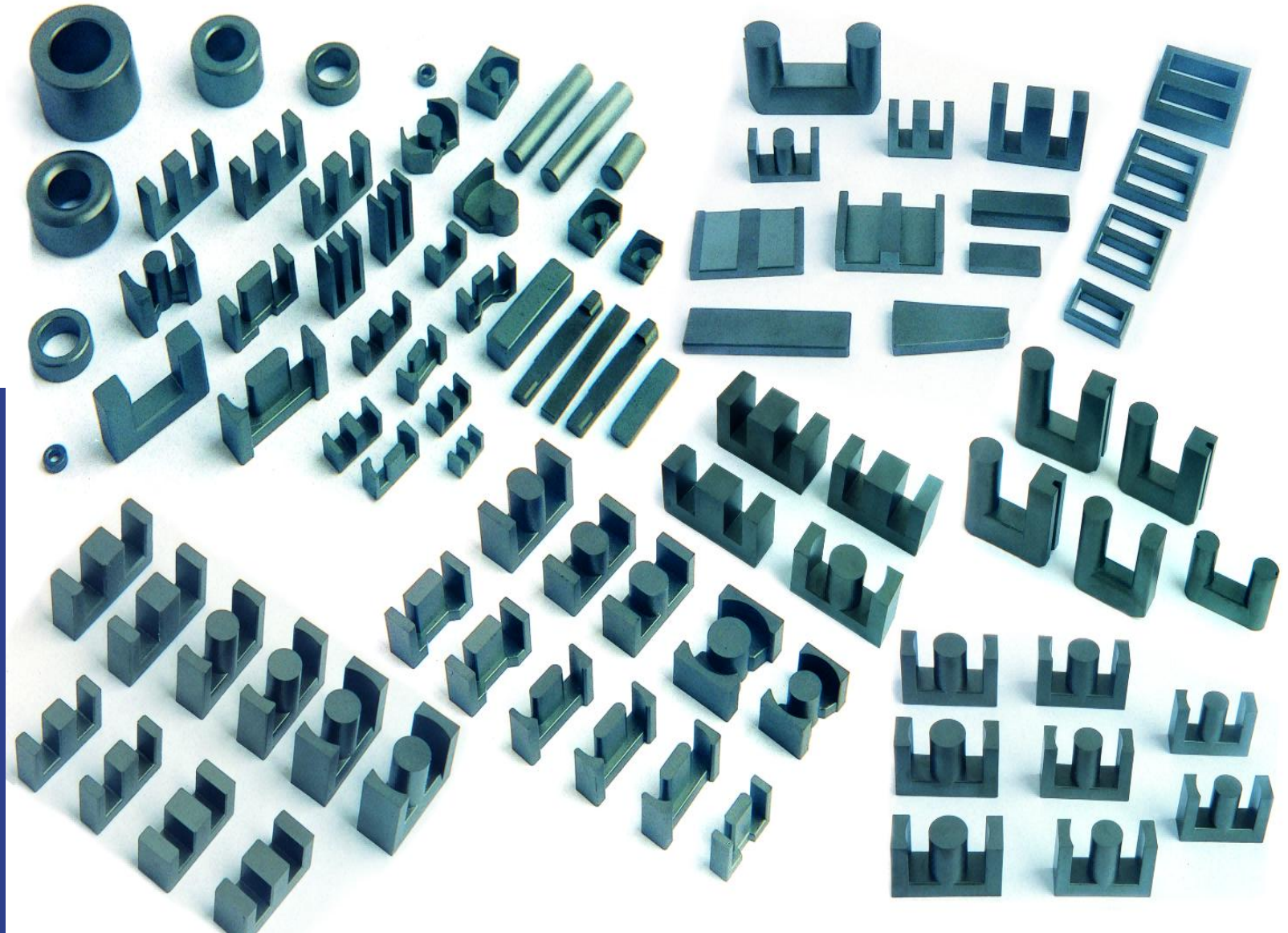
## Product Process Flow

*Master material:  $\text{Fe}_2\text{O}_3$ 、 $\text{Mn}_3\text{O}_4$ 、 $\text{ZnO}$*

PART. 02

# Product Process Flow

Process steps control routing chart for Ferrite Core



# Product Process Flow

## Powder Processing

材料名 部品名 part NO.	工程 Process steps	工程名 name of Process steps	作业指导书 operation instructio ns	管理方式 management methods			检验项目 inspecting items	测定方法 measurement methods	场所 Place
				担当 responsib ler	管理图表 managem ent chart	检查方式 inspectin g methods			
铁红 (Fe <sub>2</sub> O <sub>3</sub> )									
四氧化三锰 (Mn <sub>3</sub> O <sub>4</sub> )									
氧化锌 (ZnO)									
	0	进料检验 Incoming Quality Control	原材料检验 标准 SIP for primary material	品管部 Quality dept	检验报告 Inspectin g reports	抽样 sampling	Q/GBEE-01- A/0	化学分析 chemistry analytical method	待检区 are for preparing inspectio n
	↓	电子秤校准 adjust balance	指导书 instructio ns	作业者 operator	校准记录 adjust records	1天/1次 Every day	准确度 veracity	标准砝码 poise	粉料车间 workshop
	1	配料(电子秤) weigh in formula	指导书 instructio ns	作业者 operator	配料记录表 the records for weigh	每批 Every batch	配方 formula	电子秤 Electric balance	粉料车间 workshop
	2	化浆 Mixed	指导书 instructio ns	作业者 operator	记录表 Record	每批 Every batch	混合时间 mixed time	时钟 clock	粉料车间 workshop
	3	一次砂磨 Grind	指导书 instructio ns	作业者 operator	砂磨记录 Record	每批 Every batch	时间 Time	时钟 clock	粉料车间 workshop
	4	一次喷料 First powder	指导书 instructio ns	作业者 operator	记录表 Record	1小时/次 Every hour	温度、压力 temperatur e pressure		粉料车间 workshop
	1	一次料检验 Checkout	检验卡 check sheet	粉料检验员 Checker	检验报告 inspectin g reports	每批 Every batch	含水量		粉料车间 workshop
	5	预烧 pre-burn	指导书 instructio ns	作业者 operator	记录表 Record	1小时/次 Every hour	温度 temperatur e	温度表 thermometer	粉料车间 workshop
	2	预烧检验 Checkout	检验卡 check sheet	粉料检验员 Checker	检验报告 inspectin g reports	抽样 sampling	os	Q/GBEE-20-A/ 0	粉料车间 workshop
	6	二次砂磨 Grind	指导书 instructio ns	作业者 operator	砂磨记录 Record	每批 Every batch	时间 Time	时钟 clock	粉料车间 workshop
	3	料浆检验 Checkout	检验卡 check sheet	粉料检验员 Checker	检验报告 inspectin g reports	每批 Every batch	固含量、平 均粒度、配 方分析	Q/GBEE-21-A/ 0	粉料车间 workshop

7	二次喷料 Second powder	指导书 instructio ns	作业者 operator	记录表 Record	半小时/次 Every half hour	温度、压力 temperatur e pressure	温度计、压力计 thermometer, manometer	粉料车间 workshop
4	粉料检验 Checkout	检验卡 check sheet	粉料检验员 Checker	检验报告 inspectin g reports	抽样 sampling	松装比、流 动角、含水 率	Q/GBEE-22-A/ 0 Q/GBEE-23-A/ 0	粉料车间 workshop
8	粉料试验 Powder test	指导书 instructio ns	技术员 Technician	粉料试验报告 Powder test report	抽样 sampling	电性能 electric features		粉料车间 workshop
9	入库 stock	入库单 stock sheet						

说明：“▽”表示原材料，“◇”表示检验，“○”表示工序。

Note: “▽”denoting raw material, “◇” denoting inspection, “○” denoting process-step.



# Product Process Flow

Process steps control routing chart for Ferrite Core

Tunnel kilns



材料名 部品名 part NO.	工程 Process steps	工程名 name of Process steps	作业指导书 operation instructions	管理方式 management methods			检验项目 inspecting items	测定方法 measurement methods	场所 Place
				担当 responisber	管理图表 management chart	检查方式 inspecting methods			
合格粉料 Eligible Powder	▽								
	①	成型 Pressing	指导书 instructions	作业者 operator		抽样(自检) sampling	重量、尺寸 weight, dimension	天平、卡尺 balance, calipers	成型车间 Pressing workshop
	◇	坯件检验 Checking	检验卡 check sheet	成型检验员 Checker	检验报告 inspecting reports	抽样 sampling	重量, 尺寸, 密度 weight, dimension, density	天平、卡尺 balance, calipers	成型车间 Pressing workshop
	◇	坯件试烧 Test Calcination	指导书 instructions	技术员 Technician	试验报告 test report	每批/1次 Every batch	电性能、尺寸 Electric, dimension	测试仪器、卡尺 Test instrument, calipers	烧结车间 Sintering works hop
	②	烧结 sintering	指导书 instructions	作业者 operator	烧结记录 Sinter recoder	1小时/次 Every hour	温度、气氛、 压力 temperature, aura, pressure	温度表、测氧 仪、压力表 thermometer, manometer	烧结车间 Sintering works hop
	③	磨加工 Surface grinding	指导书 instructions	作业者 operator		抽样(自检) sampling	尺寸、电感 dimension, L	卡尺、电桥 calipers, LCR meter	磨分车间 Grinding workshop
	◇	磨加工检验 Testing for grinding	指导书 instructions	检验员 Checker	检验报告 inspecting reports	抽样 sampling	尺寸、电感 dimension, L	卡尺、电桥 calipers, LCR meter	磨分车间 Grinding workshop
	④	分类 sort	指导书 instructions	作业者 operator		全数 all quantities	尺寸、外观 dimension Outline	卡尺、目测 calipers, visualization	磨分车间 Grinding workshop
	⑤	包装 package	指导书 instructions	作业者 operator					包装区 packing area
	◇	成品检验 quality control	指导书 instructions	品管部 Quality dept	检验报告 inspecting reports	GB2828	外观、尺寸、 电性能 Outline, dimension, electric features	Q/GBEE-30-A/0~ Q/GBEE-39-A/0 目测 visualization	待检区 area for preparing inspection
	⑥	入库 Entrance into stock	入库单 Sheet of stock	成品库 finished product warehouse					成品库 finished product storage

说明: "▽"表示原材料, "◇"表示检验, "○"表示工序。

Note: "▽" raw material, "◇" inspection, "○" process-step.



# 03

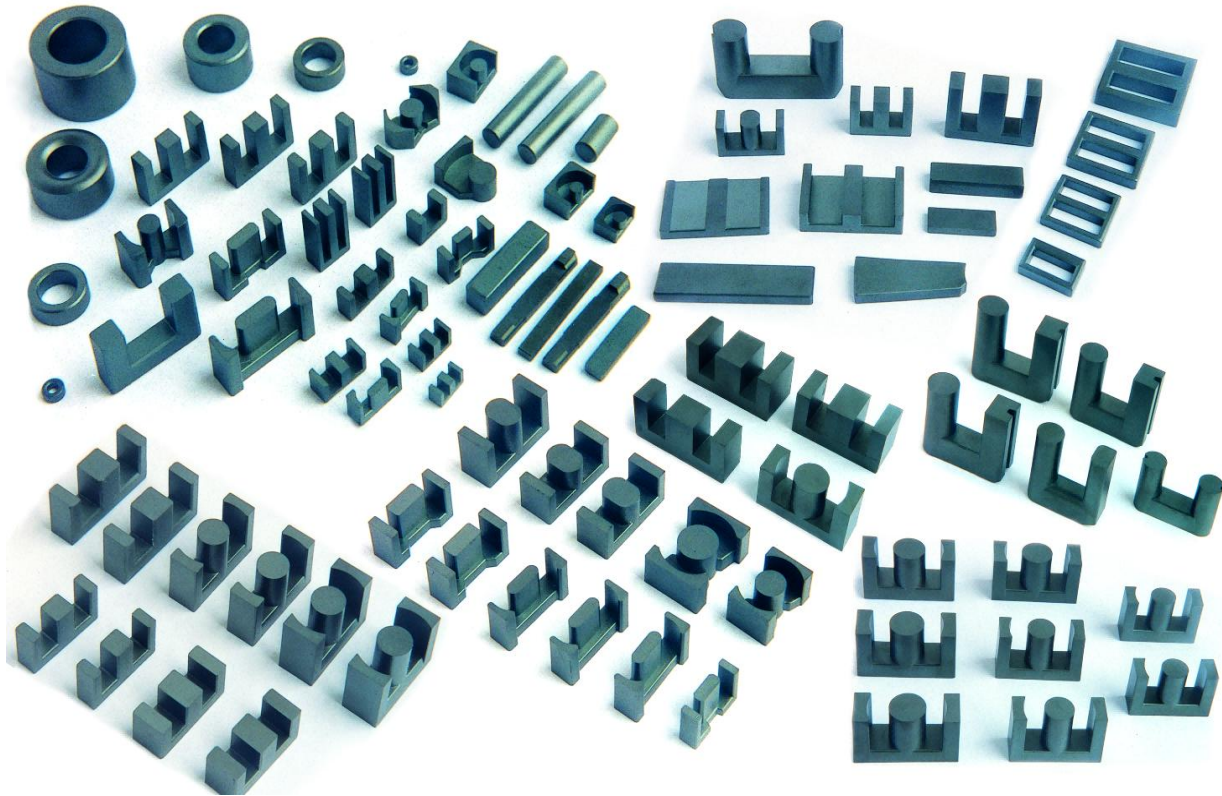
## Product Classification

Martin contains KD4, KD4A, KD47, KD90, KD95, KD96, KD5H, , KD7H, KD10H, KD12H, KD15H ect., which more than 30 *kinds* of materials, hundreds of core specifications. The products are widely used in computers and its periphery device , communication, Internet, office automation , color TVs , VCR and DVD etc. domestic AV devices, EMC, green lighting , industries, medical treatment instruments, automobile electronics and so on.

PART. 03

# Product Classification

## Mn-Zn Soft Ferrite Shape and Toriod Core



# Product Classification

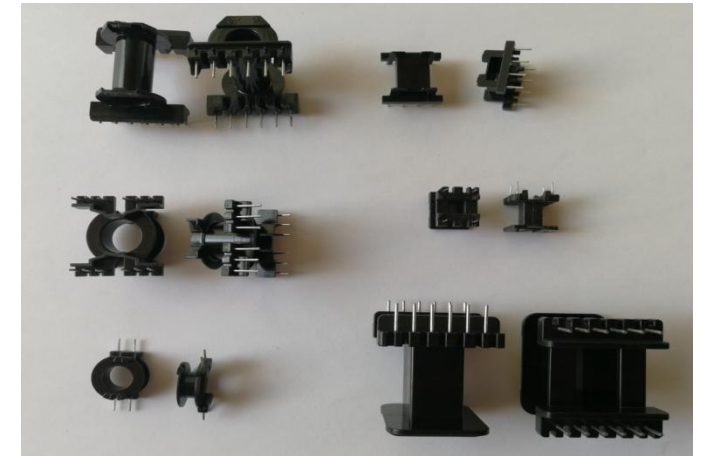
**Iron Powder Series**



**Alloy Powder Series**



**Bobbin**



# 04

## Product Application Scenario

1. Transformer of DC-DC
2. Adapter of PC notebook、digital camera and mobile communication device
3. LCD backlight
4. Green lighting
5. Filter、 inductor、 Wideband transformer、 pulse transformer, etc.
6. Transformer for xDSL Modem.
7. Transformer for High Frequency Power Supply
8. Electromagnetic-stove

PART. 04

# Product Application Scenario

Energy storage power station



01

The products are widely used in LED lighting, network communication, new energy vehicles, wind power, photovoltaic, APF, UPS, black power, white power, industrial power supply, adapter, fast charging, rail transit, national defense and military and other fields

Industrial power supply

03



Communication power supply



02

New energy vehicles

04



# Product Application Scenario



# Product Application Scenario

## Solution For Lighting



### Feature

- ◆ Frequency: 20--100kHz (160kHz)
- ◆ Power: 3-11W、 11-20W、 20-40W、 70-250W
- ◆ High effi、 low leakage、 low PL, EMC
- ◆ Core: EE、 EI、 RM、 EDR、 EP、 EFD、 PQ、 T 、 DR...
- ◆ Material: MnZn, NiZn, Iron Powder
- ◆ Assembly: Custom Design

### Application

- ◆ Choke coils, filter, transformer...
- ◆ CCFL, Ballast
- ◆ LED lighting

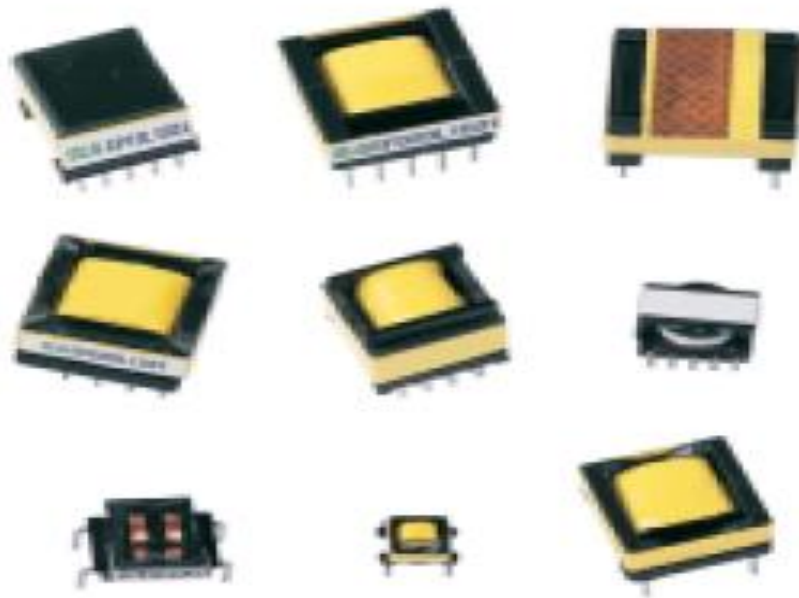
# Product Application Scenario

## Telecom, Network Transformer and Inductor

### Feature

- UL Certificated
  - Design under T 1 . 4 1 3
  - Working Temp: - 4 0 °C— 8 5 °C
  - Different Dip Mode
  - Design As Customer Need
- ### Application

- Insulated Transformer (Signal) ; Filter (DM)
- LAN, Networking





# Product Application Scenario

## Switch Mode Power Transformer



### Feature

- Frequency: 25 — 500kHz
- Power: 10 — 500W
- Low Leakage
- Low PL, EMC
- Core: EE、EI、EF、ER、EDR、EFD、PQ、RM ...
- Material: Ferrite , Sendust, Amorphous...
- Assembly: As the customer design

### Application

- The Power Supply: DC-DC、AC-DC-AC、DC-AC、UPS ...
- The Circuit: single ended forward/flyback、push-pull、half bridge/full bridge...
- IT, Telecom, PC, Medical, OA, TV, SOLAR, INDUSTRIAL...

# 05

## Related Products

**Filter**

**Transformer**

**Choke**

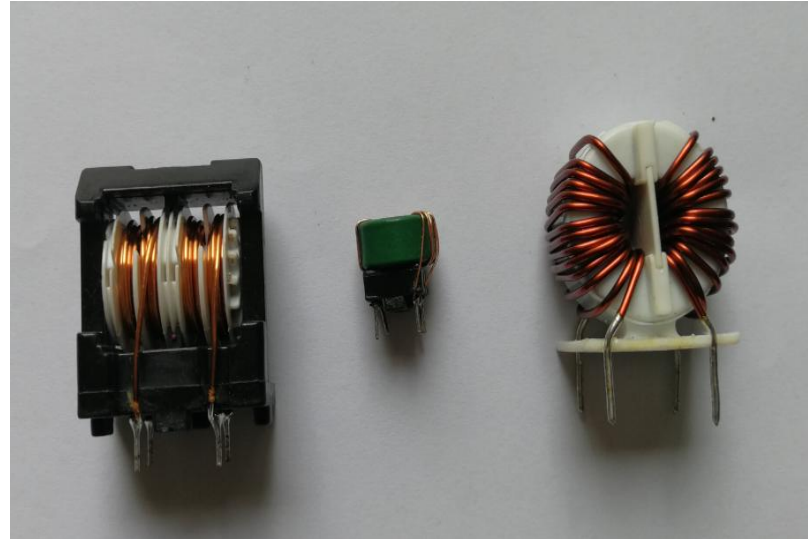
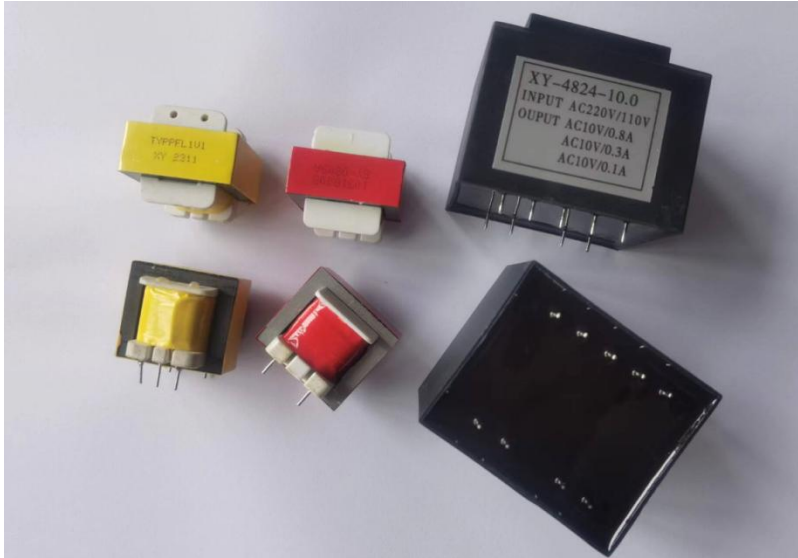
**Inductor**

**Semiconductor component**

PART. 05

# Product Classification

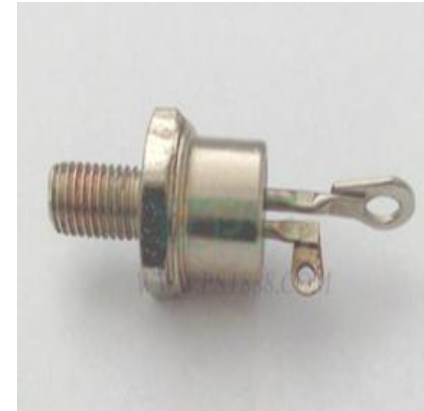
## Filter, Transformer, Choke, Inductoer



# Product Classification

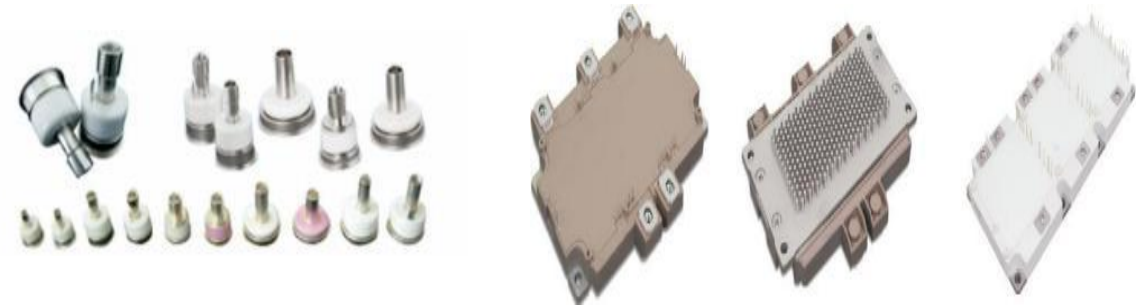
## Semiconductor component

1. Power Thyristors
2. Power Diodes
3. Ceramic Housings
4. Transistors, Triacs & SCRs
5. Semiconductor Modules
6. Capacitors
7. Semiconductor Fuses
8. Power Resistors:



# Product Classification

## Semiconductor component



# 06

## Product Prospect

### Quality Improve The Life

Keep improving

--- Let' s do it better !

**NO FOCUSED WILL,  
NO PROFESSIONAL SKILL.  
NEVER STOP IN IMPROVING.**

# Contact Information



  
TianChang Martin Trading  
Co.,Ltd.

---

**Sophia Ding**  
General Manager

- 159 5503 2233
- sophia88ding@163.com
- No26. ShiLiang East Road



**Reck Yu**  
TianChang Martin Trading Co.,Ltd.  
Technical Director

- 008613852775008
- reckyu@163.com



Contact Person: Sophia Ding

[www.chn-martin.com](http://www.chn-martin.com)

[www.yfcore.com](http://www.yfcore.com)