



創 瑞 科 技

AiT Semiconductor Inc.

www.AiT-ic.com

AiT Holding Milestone 17years

2019	- AEC-Q200 SMD Power Inductor	AEC-Q200 认证 SMD贴片 电感
2018	- Establish India Mumbai office	印度孟买成立办事处
2017	- To be Toyota & PATAC supplier for AEC-Q101 - AiT Holding invests Fuse Factory - Holding decided to be one brand AiT Semiconductor	AEC-Q101认证, Toyota & PATAC元器件供货商 控股投资 保险丝厂 合并为一个品牌 AiT
2016	- SMEs in Dun & Bradstreet, IC Elite award TOP100 from 1000 - IC China award DC-DC/Power management of Week lighting award “2016 best lighting service”	中小企业百大精英奖 中国电源管理奖状 / 年度最佳照明服务
2015	- Taiwan TEEMA award	台湾电子电机公会颁发 “优秀公司奖”
2014	- To be BMW supplier for AEC-Q101 BMW	AEC-Q101认证 BMW元器件供货商
2012,13,14	- China ACE award DC-DC/Power management	中国电子成就奖
2011	- AiT Holding invests to set up AiT Components Inc.	控股投资成立 创锐电子组件
2010	- AiT Holding invests Xtal Factory	创瑞控股投资 晶振厂
2009	- AiT Holding invests Inductor Factory	创瑞控股投资 电感厂
2007	- AiT Semiconductor to be Samsung supplier	三星元器件供货商
2006	- AiT Holding invests to set up AiT Semiconductor Inc.	控股投资成立 创瑞半导体
2004	- AiT Holding established by USA high-tech talents	致力于设计电源管理ICs



About AiT Semiconductor Inc.

創瑞科技为 IC设计领导品牌, 致力于设计高性能的模拟与混合信号IC和市场营销

提供技术整合支持,协助客户缩短设计周期, 在全球电子类产品市场

創瑞提供**电源管理**解决方案

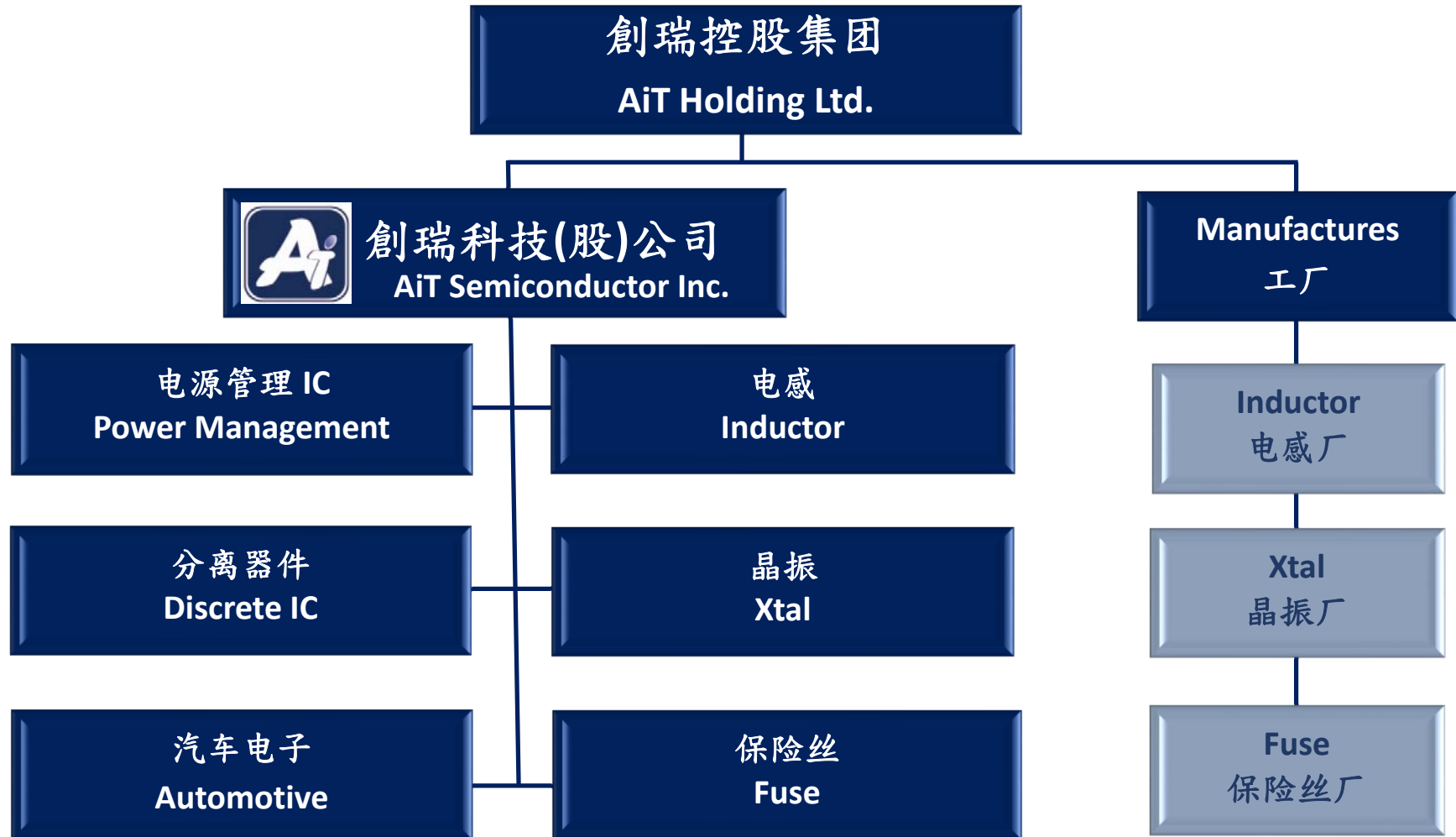
AiT Semiconductor is a leading Fabless IC Design Company
ISO9001/14001 registered , devoted to design and marketing analog & mixed signal
integrated circuits.

AiT Semiconductor leverage Holding's manufacture provide
Total-Solution to shorten customer's design cycle.

AiT Semiconductor is **power management solution provider.**



AiT Holding Org. 组织架构





AiT Products Family 產品六大類

Power Management IC 电源管理

- ◆ AUDIO AMPLIFIER
- ◆ REGULATOR
- ◆ MEMORY
- ◆ MOSFET
- ◆ BATTERY Management
- ◆ AC-DC PWM CONTROLLER
- ◆ USB Dedicated Charging Port (DCP) Controller
- ◆ ANALOG/POWER SWITCH & FILTER DRIVER
- ◆ DC-DC CONVERTER
- ◆ Supervisor(RESET IC)
- ◆ HALL SWITCH
- ◆ LED/OLED DRIVER
- ◆ TOUCH SCREEN

Automotive 汽车电子

- ◆ DISCRETE
 - a. DIODES
(Switching / Schottky / Zener / Rectifier)
 - b. TVS / ESD PROTECTION
 - c. TRANSISTOR
 - d. FET
- ◆ MOSFET
- ◆ INDUCTOR

Discrete 分离器件

- ◆ DIODES
- ◆ TVS/ESD PROTECTION
- ◆ TRANSISTOR
- ◆ BRIDGE RECTIFIER



Inductor 电感

- ◆ CHIP INDUCTOR
- ◆ COMMON MODE CHOKE
- ◆ MULTILAYER CHIP BEAD
- ◆ POWER INDUCTOR
- ◆ BEAD CORE
- ◆ WIRE WOUND SMD INDUCTOR
- ◆ THROUGH HOLE POWER CHOKE
- ◆ WIRELESS CHARGING COIL

Xtal 晶振

- ◆ CRYSTAL CERAMIC COMPONENTS
- ◆ OSCILLATOR
- ◆ TCXO (Temperature Compensated Crystal Oscillator)
- ◆ VCXO (Voltage Compensated Crystal Oscillator)
- ◆ OCXO (Oven Controlled Crystal Oscillator)
- ◆ SMD REAL TIME CLOCK OSCILLATOR
- ◆ MONOLITHIC CRYSTAL FILTER
- ◆ SAW Product

Fuse 保险丝

- ◆ PPTC Resettable Fuse
F2920L/F1812L/F1210L/F1206L/F0805L/F0603L

- ◆ Lo Rho PPTC Resettable Fuse
Lo Rho F1812L/ Lo Rho F1210L/Lo Rho F1206L
Lo Rho F0805L/Lo Rho F0603L/ Lo Rho F0402L

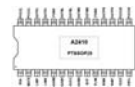
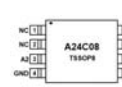
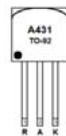
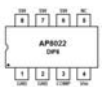




Power Management (Analog/Mixed signal)

AC-DC 交直流转换	Analog Switch 模拟开关	Battery Management 电池管理	EEPROM 存储器	Audio Amplifier 音频功放
DC-DC Buck / Boost 直流电源转换	Power Switch 电源开关	MOSFET LV/ MV/ HV 开关	Reset IC 复位	OP Amplifier 运算放大器
Regulator LDO 稳压器	Motor/Relay Driver 马达驱动	IGBT Gate Driver 网关驱动	Hall Switch 霍尔开关	
LED Drive Lighting / Backlight 驱动	Touch Screen Driver 触屏驱动		Interface Circuit RS-485接口	

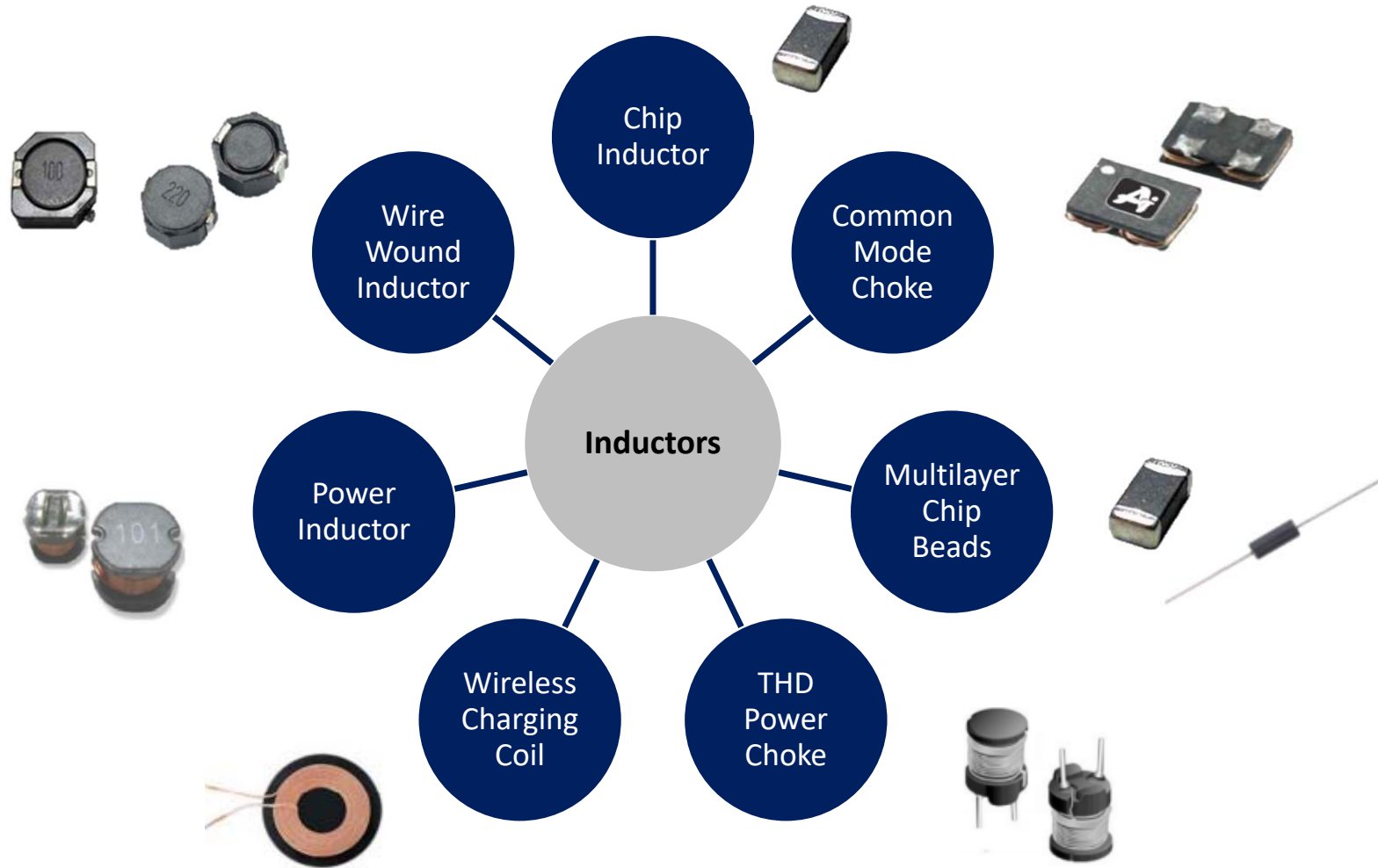
AiT provides all RoHS products





SMD Power Inductor 电感

AEC - Q200 Certificated





Frequency Components Xtal 晶振

Frequency Components

Crystals

Ceramic Resonator

Oscillators

TCXO, VCXO, OCXO

RTCs

Saw Components

Saw Filters

Saw Resonators

1. CRYSTAL COMPONENTS

DIP			SMD			
KDK26/38 30~350KHz	KDM31/39 3.579~4.0MHz	KDM26/38 4.0~50.0MHz	KSM2060A/B 30~350KHz	KSM 32.768KHz	KSG 8.0~64.0MHz	KSS 6.0~160.0MHz
KHC49H 1.843~150MHz	KHC49L 4.0~200.0MHz	KHC49U 3.0~100.0MHz	KHC49S 3.0~100.0MHz	KMC3215 32.768KHz	KMC7015 32.768KHz	KMC8038 32.768KHz

2. CERAMIC RESONATOR

ZTB 190K~1250KHz	ZTA 1.8~50.0MHz	ZTT 1.8~50.0MHz	ZTA-CC/CR/CS/CV/CW 1.8~50.0MHz	ZTT-CC/CR/CS/CV/CW 1.8~50.0MHz

3. OSCILLATOR

CMOS OUTPUT					
KOC2016 4.0~54.0MHz	KOC2520 4.0~75.0MHz	KOC3225 1.0~125.0MHz	KOC5032 1.0~150.0MHz	KOC7050 1.0~170.0MHz	KODF/KODH 0.25~180.0MHz
Seam Sealed SMD Package					Through Hole Package
DIFFERENTIAL OUTPUT					
KDO 25~200.0MHz	KDD 25~700.0MHz	KDL 25~200.0MHz	KDP 75~700.0MHz		
LVPECL / LVDS OUTPUT		HCSL / LVPECL / LVDS OUTPUT		PLL OUTPUT	

4. TCXO (TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR, CMOS OUTPUT)

KTC 13~52.0MHz	KTD 1.25~40.0MHz	KTM 5~40.0MHz
Seam Sealed SMD Package	Through Hole Package	FR-4 PCB SMD Package

5. VCXO (VOLTAGE CONTROLLED CRYSTAL OSCILLATOR)

KVC	KVL	KVM	KVDH	KVDH
50~200.0MHz	20~200 MHz	1.5~200 MHz	100~700 MHz	1.5~200 MHz
CMOS OUTPUT	PECL/LVDS OUTPUT	PECL OUTPUT	CMOS OUTPUT	PECL/LVDS OUTPUT
Seam Sealed SMD Package			FR-4 PCB SMD Package	
			Through Hole Package	

6. OCXO (OVEN CONTROLLED CRYSTAL OSCILLATOR, Seam Sealed SMD Package)

KXC01	KXC02	KXM	KXL
5~40.0MHz	5~40.0MHz	5~40.0MHz	5~100.0MHz
CMOS OUTPUT		CMOS/Sine Wave OUTPUT	
		LVTTTL/Sine Wave OUTPUT	

7. SMD REAL TIME CLOCK OSCILLATOR

KRT	KRT	KRT
32.768kHz	32.768kHz	32.768kHz
CMOS OUTPUT		

8. MONOLITHIC CRYSTAL FILTER

KMT	KMA	KMB	KMF
10.7~45.0MHz	10.7~45.0MHz	10.7~45.0MHz	21.4~73.35MHz
HC-49T Package	UM-1 Package	UM-5 Package	Seam Sealed SMD Package

9. SAW PRODUCT

SAW FILTER		SAW RESONATOR (DIP)		SAW RESONATOR (SMD)	
KF	KF	K1R/K2R	K1R/K2R	KMR	KMR



Resettable Fuse 可回复式保险丝

Surface Mount PPTC Resettable Fuse

	F2920L Operation Current: 0.30A~5.00A Vmax: 6V _{DC} ~60V _{DC} Imax: 100A		F1812L Operation Current: 0.10A~3.00A Vmax: 6V _{DC} ~60V _{DC} Imax: 10A~100A
	F1210L Operation Current: 0.05A~2.00A Vmax: 6V _{DC} ~60V _{DC} Imax: 10A~100A		F1206L Operation Current: 0.05A~2.00A Vmax: 6V _{DC} ~60V _{DC} Imax: 10A~100A
	F0805L Operation Current: 0.10A~1.00A Vmax: 6V _{DC} ~15V _{DC} Imax: 40A~100A		F0603L Operation Current: 0.01A~0.20A Vmax: 9V _{DC} ~60V _{DC} Imax: 40A

Lo Rho PPTC Resettable Fuse

	Lo Rho F1812L Operation Current: 1.40A~6.00A Vmax: 6V _{DC} Imax: 100A		Lo Rho F1210L Operation Current: 1.75A~7.50A Vmax: 6V _{DC} Imax: 100A
	Lo Rho F1206L Operation Current: 0.50A~7.00A Vmax: 6V _{DC} Imax: 100A		Lo Rho F0805L Operation Current: 0.75A~3.50A Vmax: 6V _{DC} Imax: 100A
	Lo Rho F0603L Operation Current: 0.25A~1.00A Vmax: 6V _{DC} ~9V _{DC} Imax: 100A		Lo Rho F0402L Operation Current: 0.10A~0.50A Vmax: 6V _{DC} Imax: 100A

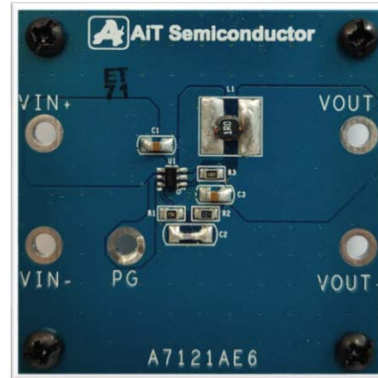




Evaluation Board 评估板



A7335
30V, 133kHz, 3.5A
DC-DC Step-Down



A7121A
1MHz, 2A, 6V
DC-DC Buck



A7222A
16V, 500kHz, 2A
DC-DC Buck



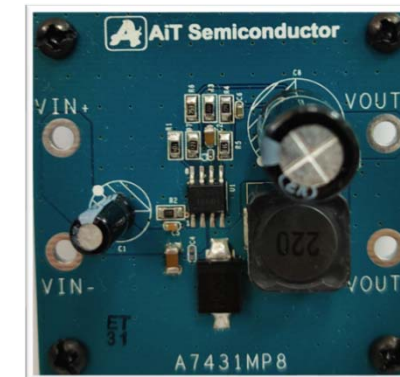
A7142
45V, 150kHz, 2A
Simple Switcher Power
Converter



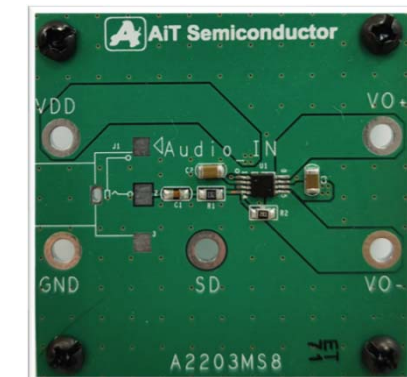
A8167A
1.2A, $V_{REF}=200mV$
LED Driver IC



A7431A
42V, 230kHz, 3A
DC-DC BUCK



A7431
42V, 125kHz, 3A
DC-DC Step-Down



A2203
1.1W @8Ω Class=AB
Audio Power Amplifier



Applications 八大终端运用领域





Market Segments

Lighting 照明领域	Medical 医疗电子	Telecommunication 通讯网络	Home Appliance 家电产品	Automotive 汽车电子	Consumer 消费电子	IoT 物联网	Industrial 工业控制
出口和应急照明 3C背光 展示柜照明 顶灯 露营夜灯 车库LED探照灯 LED灯具	血压监测仪 血糖仪 额温检测器 病人监护仪 电子体温计 助听器 显微镜相机	网络电话 智慧手机 无线对讲机 GPS追踪器 平板电脑 智慧手机 电子屏幕	扫地机器人 空气清净机 微波炉 吸尘器 电视机 咖啡机	GPS导航 行车纪录器 汽车安卓机 抬头显示器 迎宾踏板 车载充电器 胎压侦测器	游戏机 VR/AR 笔记本电脑 智能音响 蓝牙耳机 3C扩充盒	智慧家电 电子手环 智慧手表 居家安全监控 无人机 门口机	电子仪表 服务器 工业自动化 传感器 电子磅秤 各类数位表



Major Customers

Media System



IOT / Home Appliance



GPS & Navigation



IPC / POS / Communications / STB



Others : Remote controller / Thunderbolt / Label Printer ...





Automotive 汽車電子

AEC - Q101 Certificated

ITEM		PRODUCT FAMILY	
1 DIODES			
1-1	SWITCHING DIODES	2PIN SURFACE MOUNT SWITCHING DIODES	
		3PIN SURFACE MOUNT SWITCHING DIODES	
		6PIN SURFACE MOUNT SWITCHING DIODES	
1-2	ZENER DIODES	2PIN SURFACE MOUNT ZENER DIODES	
		3PIN SURFACE MOUNT ZENER DIODES	
2 TRANSISTOR			
2-1	GENERAL PURPOSE TRANSISTORS	3PIN GENERAL PURPOSE TRANSISTORS	
		6PIN GENERAL PURPOSE TRANSISTORS	
2-2	SWITCHING TRANSISTORS		
2-3	BIAS RESISTOR TRANSISTORS		
3 FET			
FET			
4 MOSFET			
MOSFET			



Foundry . Packaging and Testing

R&D >>> PLD (Production & Logistic) >>> Sales & Marketing >>>

R&D

CHN
TWN
USA

Manufacture

Foundry

ASMC 上海先进
CSMC 华润上华
HH-NEC 华虹

Fuse
Inductors
Xtal & Oscillators

**Assembly &
Testing**

JEC 江阴长电
CY 上海勤益
TS 天水华天
ASE 日月光
Fuji 南通富士

**Sales &
Marketing**

Taiwan
China
Korea
Japan
SEAN
India
S. Africa
Russian
USA
EURO

Power Management ICs & Discrete



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Thank You