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PRODUCT MANUALS 产品手册



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台湾奥特半导体科技有限公司
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广东奥特半导体有限公司
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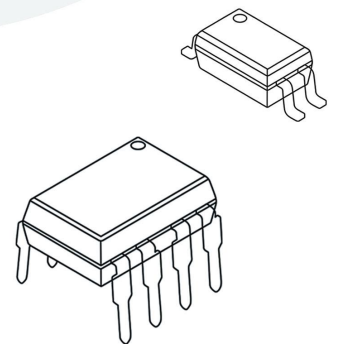
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广东奥特半导体有限公司
领先的光电耦合器制造商

公司简介

Company Profile

奥特半导体 领先的光电耦合器制造商

台湾奥特半导体科技有限公司（以下简称AOTE）成立于2018年，总部及研发实验室设立于台湾省台中市。旗下分公司-广东奥特半导体有限公司的成立标志着AOTE奥特半导体公司在国内市场的扩张，深圳市作为中国半导体产业的核心地区，具有便捷的交通和良好的产业生态环境，为公司的发展提供了有力的保障。分公司主要负责销售产品，以满足不同地区市场的需求。设立分公司不仅有利于与国内客户的合作，也能更好地了解并满足中国市场的需求。

奥特公司研发团队成员大部分来自于国内外大型半导体公司，奥特拥有国际一流水准的高性能模拟混合集成电路设计能力，和依据产品性能指标设计集成电路的丰富经验，是目前拥有光耦芯片全产业链生产能力的及研发高科技公司，公司已通过ISO9001,ISO14001质量管理体系认证，公司对产品高研发投入及设计，现有产品已可PIN对PIN对标及兼容欧美、日、合资的多系列光电耦合器，产品均符合欧盟RoHS、REACH、SGS环保指令标准，并通过中国质量CQC，德国VDE，美国UL安规认证等多项国际认证。

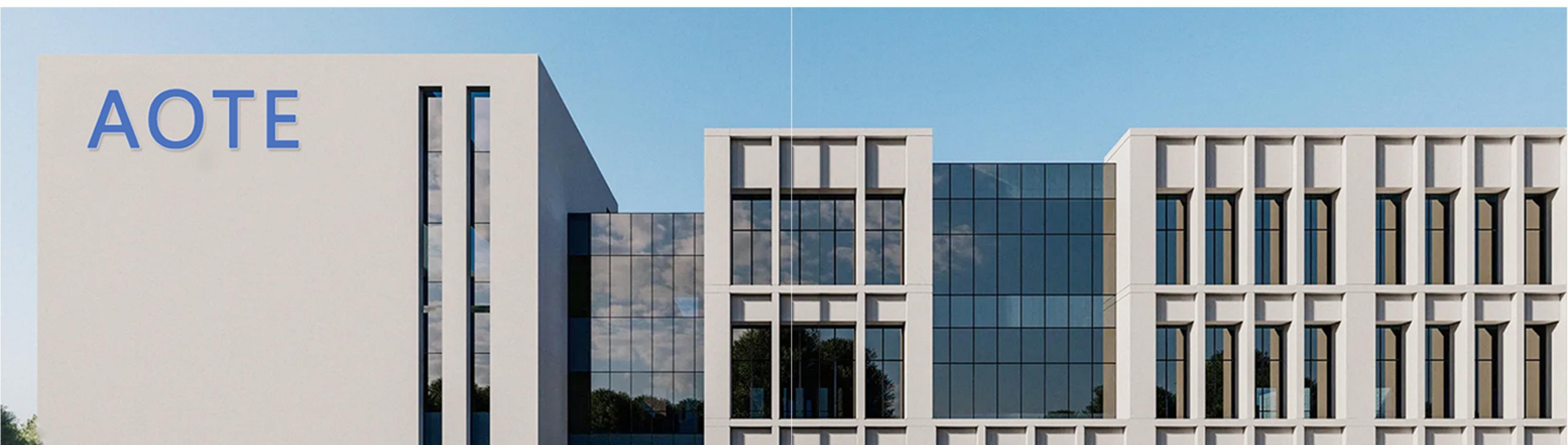
目前的光电耦合器产品包括：晶体管输出光耦、光电继电器、可控硅输出光耦、高速光耦、达林顿、IGBT驱动光耦等产品，产品广泛应用于智能家居、移动互联、智能仪表、智能汽车、医疗设备、工业控制、消费类及工业级产品领域等，为各行业提供完善服务。

正品保证  质量保证  无忧退换  可开发票  长期现货  原厂供应 

Taiwan Province AOTE Semiconductor Technology Co., Ltd. (hereinafter referred to as AOTE) was established in 2018, with its headquarters and R&D laboratory in Taichung City, Taiwan Province. The establishment of its subsidiary Guangdong AOTE Semiconductor Co., Ltd. marks the expansion of Aote Aote Semiconductor Company in the domestic market. As the core area of China's semiconductor industry, Shenzhen has convenient transportation and good industrial ecological environment, which provides a strong guarantee for the company's development. The branch company is mainly responsible for selling products to meet the needs of different regional markets. Setting up branches is not only beneficial to cooperation with domestic customers, but also can better understand and meet the needs of China market.

Most of the R&D team members of Aote Company come from large semiconductor companies at home and abroad. Aote has world-class high-performance analog and hybrid integrated circuit design capabilities and rich experience in designing integrated circuits according to product performance indicators. It is a high-tech R&D company with the production capacity of optocoupler chips in the whole industry chain. The company has passed the ISO 9001 and ISO 14001 quality management system certification, and the company has high R&D investment and design for products. The existing products can be PIN-to-PIN, and are compatible with many series of photoelectric couplers from Europe, America, Japan and Taiwan. The products all meet the environmental protection directive standards of EU RoHS, REACH and SGS, and have passed many international certifications, such as China Quality CQC, German VDE and US UL Safety Certification.

At present, the photoelectric coupler products include: transistor output optocoupler, photoelectric relay, SCR output optocoupler, high-speed optocoupler, Darlington, IGBT driven optocoupler and other products. The products are widely used in smart home, mobile internet, smart instruments, smart cars, medical equipment, industrial control, consumer and industrial products, etc., and provide perfect services for various industries.



品质保证

QUALITY GUARANTEE

体系管理

通过 ISO9001、ISO14001 等体系标准认证；产品符合 CQC、VDE、UL、SGS、ROSH、REACH 等认证的规则要求。

AOTE's system passed ISO9001, ISO14001, and other system standard certification. Products comply with CQC, VDE, UL, SGS, ROHS, REACH certification rules and requirements.

供应商管理

奥特拥有完整的供应商评估体系，安全、稳定的供应商队伍。

AOTE has a complete supplier evaluation system, safe and stable supplier team.

制程品质管理

奥特一直秉承着“质量第一”的管理思想，精益求精，做到“不接收、不制造、不流出”不良品。

AOTE has been adhering to the “Quality first” management philosophy, excellence, to “Do not receive, do not manufacture, do not flow out of” defective products.

客诉管理

奥特拥有专业的客服团队，能高效处理客户抱怨和投诉，承诺 48 小时内完成快速反应及处理，72 小时内给出基本原因分析及改善计划，一般问题 7 个工作日内回复完整的 8D 报告。

AOTE has a professional customer service team, can effectively deal with customer complaints and complaints, promised to complete the rapid response and handling within 48 hours, 72 hours to provide root cause analysis and improvement plan, general questions reply to the full 8D report within 7 working days.

有害物质管理

奥特具备 RoHS1.0、RoHS2.0 检测能力，成品按封装形式 1 次 / 年进行第三方检测并提供检测报告。

AOTE has rohs 1.0, rohs 2.0 testing capabilities, finished products in the form of packaging once a year for third-party testing and provide testing reports.

体系管理

实验室具备独立进行 RA 测试和 FA 分析能力，测试项目包含 HAST、PCT、HTOL、HTRB、WHTOL、HT/HH、H3TRB、TC、Salt Test 等。

The lab has the ability to independently conduct RA tests and FA analysis, including HAST, PCT, HTOL, HTRB, WHTOL, HT/HH, H3TRB, Tc, Salt Test, etc.

产品及体系认证

PRODUCT AND SYSTEM CERTIFICATION



公司已通过 ISO9001、ISO14001 等认证
 产品已陆续通过 CQC、VDE、UL、SGS、ROHS、REACH 等认证
 The company has passed ISO9001 and ISO14001 certifications.
 The products have passed CQC, VDE, UL, SGS, ROHS, REACH and other certifications.

CONTENTS目录

诚信务实 · 质量求生存 · 共赢未来

Integrity and pragmatism, quality survival, and win-win future

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应用领域

APPLICATION FIELD



工业控制

工业控制是机器设备或生产过程在不需人工直接干预的情况下，按预期的目标实现测量、操纵等信息处理和过程控制的统称。在工业控制系统中，存在着各种各样的干扰，使用光隔离器可以实现隔离、抗干扰的效果。奥特的栅极驱动光耦 (AT3120、AT341) 能够对设备前端发出的驱动信号进行隔离保护，其与晶体管光耦 (AT817、AT357 等) 实现了低压数字电路和高压驱动电路之间的电气隔离，从而避免工控设备初次级悬殊的压差带来的安全隐患。

医疗

社会大众健康生活的检测、预防、治疗过程中和医疗设备。仪器是离不开的。奥特光耦抗干扰能力强、体积小，输入输出两端完全绝缘、抑制电噪声和瞬态干扰、消除接地回路等作用是实现医疗设备完全隔离的理想器件。奥特的高速光耦 (如 AT6N137、ATW501、ATW601 等) 用于电源和电机控制电路、数据通信、数字逻辑接口电路；栅极驱动光耦 (AT3120、AT341 等) 驱动 IGBT 和功率 MOSFET 器件，实现电机控制和功率转换。



仪器仪表

仪器仪表是用以检出、测量、观察、计算各种物理量、物质成分、物性参数等的器具或设备，是为某一特定用途所准备的一套装置或机器，如示波器、功率计、测试仪、万用表等。奥特的晶体管光耦 (如：AT817、AT357 等) 用于设备供电区域做电压信号反馈；光继电器 (如 AT17x、AT21x 等) 和高速光耦 (如 AT6N137、ATW501) 用于隔离通讯端口，光继电器的无机械动作、寿命长及高速光耦的快速响应等优点成为仪器仪表选择使用光耦隔离的一大首选。



电源

开关电源是一种高频电能转换装置，是利用电子开关器件通过控制电路快速地“开通”和“关断”，对输入电压进行脉宽调制，从而实现 AC-DC、DC-DC、DC-AC 电压变换。奥特晶体管光耦 (AT817/AT1018/AT1019 等) 在开关电源中将进线 220V 高压和输出低压两端隔离，同时提供反馈信号至前端控制电路和保护电路，控制驱动电路输出相应的 PWM 信号，以控制开关电源的工作状态，从而保证后端设备及使用人员的安全和保护输出电压的稳定。

光伏逆变

光伏发电是一种利用太阳能电池半导体材料的光伏效应，将太阳光辐射能直接转换为电能的一种新型发电系统，搭配储能系统可以对能源利用达到最大化。奥特光继电器 (ATY258/QXS258 1500V) 在光伏储能产品上做为信号检测、绝缘检测应用，具有输出端子关断耐压高、初次级高绝缘耐压特性 (5000V 以上绝缘耐压)，给高压储能设备提供安全保障，QXN201 高精度线性光耦，提供更高精度的信号采样数据。



家居家电

家用电器使人们从繁重、琐碎、费时的家务劳动中解放出来，为人类创造了更为舒适优美、更有利于身心健康的生活和工作环境，提供了丰富多彩的文化娱乐条件，是现代家庭生活的必需品。日用家电的高功率、高电压会有一定的安全隐患，这就需要用到隔离器件来消除电平转换时悬殊的压差带来的不安全因素。奥特晶体管光耦 (AT817、AT1018、AT1019 等) 电压采样和信号反馈；高速光耦 (ATM60x、ATW60x、AT6N137、AT0601 等) 用于检测与保护线路；可控硅光耦 (ATx223、ATx213、AT305x、AT306x 等) 能在高压、强电流的条件下工作，且工作过程可以控制，用于可控整流、交流调压、无触点电子开关、逆变及变频等电子电路中。

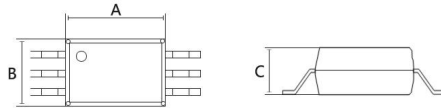
新能源

在全球能源不断缩减、提倡节能减排的大背景下，新能源汽车在市场中占比日益增加，存在全面取代燃油车的趋势，汽车是肩负着人员运输安全使命的交通工具。新能源汽车电池充电、BMS 管理、电控等系统中使用的奥特光继电器 (AT17x、AT22x、ATY258、ATS258 等) 响应速度快，灵敏度高，导通电阻小，漏电流小等特点能够更大幅度地利用电池存储能力和循环寿命；高速光耦 (AT6N137、AT074L、AT0631 等) 的高速响应为汽车控制系统指挥执行系统提供和采集数据；智能栅极驱动光耦 (AT33x 系列) 更高的输出峰值电流、更强的抗扰能力，具有可编程故障检测、欠压锁定的特点用于强弱电隔离、通信、过程控制等系统。



产品封装图

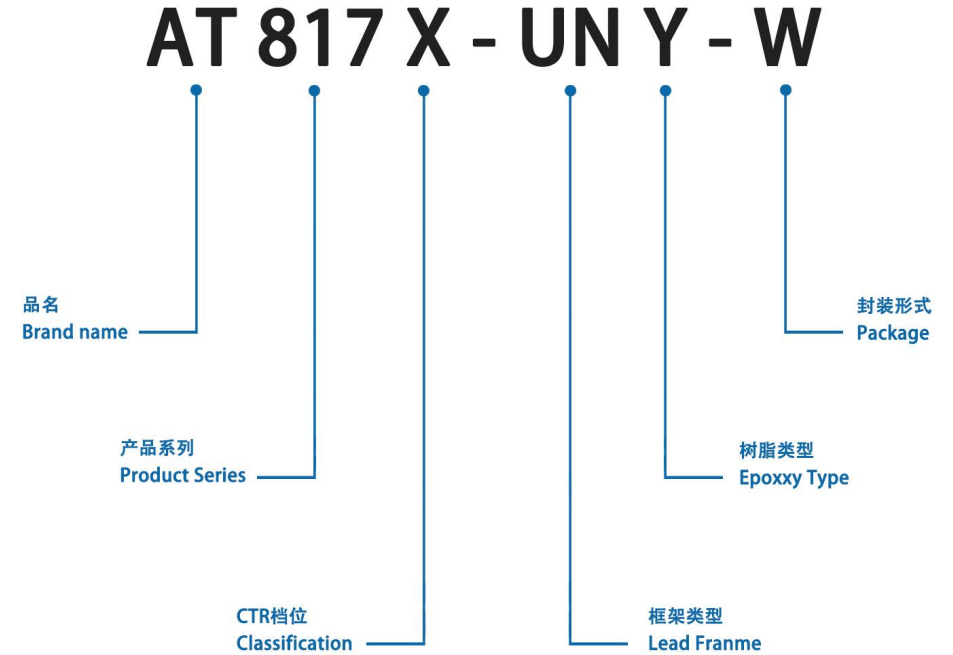
Product packaging diagram



Package	size AxBxC
	DIP4 6.5x4.6x3.5
	DIP6 6.5x7.3x3.5
	DIP8 6.5x9.68x3.5
	SOP4 4.4x3.85x2.0
	SOP5 4.4x3.6x2.3
	SOP8 3.91x5.84x3.18
	SMD6 7.12x6.5x3.5
	SMD7 9.68x6.5x3.5
	LSOP4 7.5x3.8x2.0
	SSOP4 4.4x2.6x2.0
	SSOP16 4.4x10.28x2.0
	WDIP8 11.23x9x5.1
	WDIP10 13.7x11x5.25

产品型号定义

Product Model Definition



备注:

CTR档位 (代码: A、B、C、D)

框架类型: (Cu: 铜框架, Fe: 铁框架)

封装形式: (D:DIP, S:SMD; M:DIP-M)

产品选型表

AOTE Product Selection Table

奥特产品选型表

晶体管光耦	AT816 AT817	AT851 AT814	AT357 AT354	AT8801 AT101x	AT826 AT827	AT451 AT127	AT3H7 AT8016	AT2514 ATN201	ATN200 ATN201	ATN826 ATN827
达林顿光耦	AT815 AT852	AT825 AT415	AT452 AT215	AT4Nxx ATN825	AT6N138 AT6N139	ATN6N138 ATN6N139	ATN825			
光继电器	AT21x AT41x	AT22x AT17x	ATY258 ATS258	ATY258H ATS258H	AT176 AT42x	AT1722 AT2122	ATV21x ATV25x	AT2222 AT41xS	ATY259 ATS259	ATV41x ATV45x
可控硅光耦	AT52x AT55x	AT56x AT58x	AT302x AT305x	AT306x AT308x	ATM302x ATM305x	ATM306x ATM308x	ATx213 ATx223	AT202x AT205x	AT206x AT208x	
高速光耦	6N135 6N136	6N137 AT7720	ATM511 ATM611	ATW511 ATW611	ATM721 ATW720	ATN6N135 ATN6N136	H11L1 ATC64L	ATN6N137 ATN261L	ATC53x ATC63x	ATM723 ATW723
栅极驱动光耦	AT3120 AT3150	ATM341 ATM314	AT350 AT341	AT314 AT343	ATM343 ATN3140	AT0341 AT0314	AT3140 AT0343	ATN3120 ATN3150		
智能栅极驱动光耦	AT330J	AT332J	AT316J	AT331J	AT333J	AT337J	AT339J			
智能功率模块接口光耦	AT4504	AT4506	AT480	ATM480	ATM481	AT481	ATN4504	ATN4506	ATC4504	ATC4506
隔离运算放大器	AT7840	ATC87AT	ATC87BT	ATH87AT	ATH87BT	ATC790	ATH790			

晶体管光耦



产品应用：

- Household Appliances 家用电器
- Switching Power Supply 开关电源
- Smart Electric Meter 智能电表

产品特点：

- Has a large current transmission ratio(CTR) 具有大电流传输比 (CTR)
- High withstand voltage and low input current 高耐压、低输入电流
- It can be used to isolate high voltage circuit and low voltage circuit 可用于隔离高压电路和低压电路；
- Safety certification:CQC/UL/VDE/State grid certification 安规认证：CQC/UL/VDE/SGS/ 国网认证等
- Product certification:SGS/ROHS&REACH 产品认证：SGS/ROHS&REACH/ 无卤等

产品型号参数：

交流输入型

Part Number	Pin Configuration	Package	CTR					Vce (V)	Viso @1min (Vrms)
			Rank	Min(%)	Max(%)	@IF (mA)	@Vce (V)		
AT3H4		SSOP-4							3750
AT354		SOP-4	A	50	150	±1	5	80	5000
AT814		DIP-4 DIP-4M SMD-4	B C	100 20	300 300				
AT3H44		SSOP-16	--	20	300	±1	5	80	3750

产品型号参数：

直流输入型

Part Number	Pin Configuration	Package	CTR					Vce (V)	Viso @1min (Vrms)
			Rank	Min(%)	Max(%)	@IF (mA)	@Vce (V)		
AT8801		SSOP-4	A	80	160	1	5	80	3750
		SOP-4	B	130	260				5000
		DIP-4	C	200	400				
		DIP-4M SMD-4	--	80	400				
AT816		DIP-4	C	200	400	5	5	80	5000
DIP-4M		D1	300	450					
SMD-4		D2	380	600					
AT3H7		SSOP-4	A	80	160	5	5	80	3750
AT817		DIP-4	B	130	260				
		DIP-4M	C	200	400				
		SMD-4	D	300	600				
AT357		SOP-4	A	80	160	5	5	80	3750
B			130	260					
C			200	400					
D			300	600					
AT101x		LSOP-4	1010	50	600	5	5	80	3750
1017			80	160					
1018			130	260					
1019			200	400	10				
1020			300	450					
1012			63	125					
1013			100	200	1				
1014			160	320					
1012			22	--					
1013	34	--							
1014	56	--							

产品型号参数：

直流输入型

Part Number	Pin Configuration	Package	CTR					Vce (V)	Viso @1min (Vrms)
			Rank	Min(%)	Max(%)	@IF (mA)	@Vce (V)		
AT4Nxx		DIP-6 SMD-6	4N25 4N35	20 100	-- --	10	10	30	5000
AT826		DIP-8 SMD-8	C D1 D2 --	200 300 380 200	400 450 600 600	5	5	80	5000
AT827		DIP-8 SMD-8	A B C D --	80 130 200 300 80	160 260 400 600 600				
ATN826		WDIP-8 WSMD-8	C D1 D2 --	200 300 380 200	400 450 600 600				
ATN827		WDIP-8 WSMD-8	A B C D --	80 130 200 300 80	160 260 400 600 600	5	5	80	5000
AT3H74		SSOP-16	--	80	600				
AT451		SSOP-4	--	50	600	5	5	350	3750
AT851		DIP-4 DIP-4M SMD-4	--	50	600	5	5	350	5000

产品型号参数：

直流输入型

Part Number	Pin Configuration	Package	CTR					Vce (V)	Viso @1min (Vrms)
			Rank	Min(%)	Max(%)	@IF (mA)	@Vce (V)		
AT8016		DIP-4 DIP-4M SMD-4	--	0.1	1	5	5	30	5000
AT818		DIP-4 DIP-4M SMD-4	--	50	600	1	5	70	5000
AT358		SOP-4	--	50	600	1	5	70	3750

产品型号参数：

高线性度模拟光耦

Part Number	Pin Configuration	Package	CTR					Vce (V)	Viso @1min (Vrms)
			Rank	Min(%)	Max(%)	@IF (mA)	@Vce (V)		
ATN200		WDIP-8 WSMD-8	--	0.85	1.15	5nA < I _{PD} < 50μA	0V < V _{PD} < 15V	150	5000
ATN201			--	0.95	1.05	5nA < I _{PD} < 50μA	0V < V _{PD} < 15V	150	

达林顿光耦



产品应用：

- Power system control
电力系统控制
- Medical treatment
医疗设备
- Commercial unit
工业设备

产品特点：

- High gain, enhanced signal
高增益，增强信号
- High isolation, avoiding the interference of electrical noise
高隔离度，避免电气噪声的干扰
- High-speed response, signal transmission and conversion can be completed in microsecond level
高速响应，可在微秒级别内完成信号传输和转换
- Safety certification: CQC/UL/VDE/State grid certification
安规认证：CQC/UL/VDE/SGS/国网认证等
- Product certification: SGS/ROHS&REACH
产品认证：SGS/ROHS&REACH/无卤等

产品型号参数：

Part Number	Pin Configuration	Package	CTR					Vce (V)	Viso @1min (Vrms)
			Rank	Min(%)	Max(%)	@IF (mA)	@Vce (V)		
AT6N138		DIP-8 SMD-8	--	300	--	1.6	4.5	7	5000
AT6N139			--	400	--	0.5		18	
ATN138		WDIP-8 WSMD-8	--	300	--	1.6		7	
ATN139			--	400	--	0.5		18	
ATC70A		WSOP-8	--	300	5000	1.6		5	

产品型号参数：

Part Number	Pin Configuration	Package	CTR					Vce (V)	Viso @1min (Vrms)
			Rank	Min(%)	Max(%)	@IF (mA)	@Vce (V)		
AT4Nxx		DIP-6 SMD-6	4N33	500	--	10	10	30	5000
AT215		SSOP-4	--	600	7500	1	2	40	3570
AT415		SOP-4	--	600	7500				
AT815		DIP-4 DIP-4M SMD-4	--	600	7500				
AT825		DIP-8 SMD-8	--	600	7500	1	2	40	5000
ATN825		WDIP-8 WSMD-8	--	600	7500	1	2	40	5000
AT452		SOP-4	--	1000	--	1	2	350	3750
AT852		DIP-4 DIP-4M SMD-4	--	1000	--	1	2	350	5000
AT2154		SSOP-16	--	600	7500	1	2	40	3750

光继电器



产品应用：

- Automobile drive electronic control system
汽车驱动电控系统
- Photovoltaic inverter
光伏逆变
- Battery detection
电池检测

产品特点：

- It has good isolation, and the input and output terminals are completely electrically isolated
具有良好的隔离性，输入端和输出端完全实现电隔离
- Luminescence and photosensitive devices have ideal spectral matching, rapid response and high transmission efficiency. Easy to connect logic circuit
发光与光敏器件光谱匹配理想，响应迅速，传输效率高。易于连接逻辑电路
- Transmitting optical signals in one direction effectively blocks the electrical connection of circuits, but does not cut off the signal transmission between them
单方向传输光信号，有效地阻断电路的电气连接，但不会它们切断之间的信号传输
- Safety certification:CQC/UL/VDE/State grid certification
安规认证：CQC/UL/VDE/SGS/国网认证等
- Product certification:SGS/ROHS&REACH
产品认证：SGS/ROHS&REACH/无卤等

产品型号参数：

Part Number	Pin Configuration	Package	Device Name	V _L Max(V)	I _L Max(A)	R _{on} Typ(a)	I _{off} Typ(mA)	T _{on} Typ(ms)	T _{off} Typ(ms)	Viso @1min (Vrms)
AT17x		SOP-4	AT1722	60	2	0.07	3	5	1	3750
			AT172	60	0.5	0.9	3	2	1	
			AT173	100	1.25	0.22	3	1	1	
			AT174	400	0.12	16	3	1	1	
			AT176	600	0.04	36	3	1	1	
			AT177	200	0.18	2.2	3	2	1	

产品型号参数：

Part Number	Pin Configuration	Package	Device Name	V _L Max(V)	I _L Max(A)	R _{on} Typ(a)	I _{off} Typ(mA)	T _{on} Typ(ms)	T _{off} Typ(ms)	Viso @1min (Vrms)
AT21x		DIP-4 DIP-4M SMD-4	AT2122	60	2	0.08	3	2.4	0.5	5000
			AT212	60	0.5	0.8	3	0.4	0.25	
			AT213	100	1.25	0.22	3	0.25	0.3	
			AT214	400	0.12	15	3	0.06	0.4	
			AT216	600	0.04	36	3	0.12	0.35	
AT22x		DIP-8 SMD-8	AT2222	60	2	0.08	3	2.4	0.5	5000
			AT222	60	0.5	0.8	3	0.4	0.25	
			AT223	100	1.25	0.3	3	0.25	0.3	
			AT224	400	0.12	15	3	0.06	0.4	
			AT226	600	0.04	36	3	0.12	0.35	
ATY25x		DIP-5 SMD-5	ATY258	1500	0.02	110	3	1.5	0.5	5000
			ATY259	1800	0.35	2.2	3	2	1	
ATV25x		DIP-6 SMD-6	ATV253	100	1.25	0.25	3	2	1	5000
			ATV254	400	0.12	13	3	2	1	
			ATV256	600	0.04	36	3	2	1	
			ATV252	60	3.5	0.05	3	5	0.5	
			ATV258	1500	0.02	110	3	5	1	
AT25A			AT252A	60	2	0.08	3	5	1	
ATS25x		SOP16	ATS258	1500	0.02	110	3	1.5	0.5	5000
			ATS259	1800	0.35	2.2	3	2	1	

可控硅光耦



产品应用：

- household appliances 家用电器
- High voltage AC switch 高压交流开关
- Lighting controller 灯光控制器

产品特点：

- The switching speed is improved by using MOSFET as switching tube 采用 MOSFET 作为开关管，提高了开关速度
- The MOSFET structure is adopted inside, and the volume is reduced, and the weight is only 1/3 of that of the common triac 内部采用 MOSFET 结构，体积缩小，重量只有普通三端可控硅的 1/3
- Using unique thermal protection technology, the working temperature range is wide, thus prolonging the service life 采用独特的热保护技术，工作温度范围宽，从而延长了使用寿命
- Safety certification:CQC/UL/VDE/State grid certification 安规认证：CQC/UL/VDE/SGS/ 国网认证等
- Product certification:SGS/ROHS&REACH 产品认证：SGS/ROHS&REACH/ 无卤等

产品型号参数：

Part Number	Pin Configuration	Package	ZC or NZC	Device Name	I_{TRMS} (mA)	I_{FT} Max(mA)	V_{DRM} Min(V)	I_{DRM} Max(μ A)	V_{TM} Max(V)	Viso @1min (Vrams)
ATM301X		SOP-4	NZC	ATM3011	100	15	250	100	3	3750
				ATM3012	10					
				ATM3013	5					
ATM302x		SOP-4	NZC	ATM3020		30	600	100	2.5	3750
				ATM3021	15					
				ATM3022	10					
ATM305x		SOP-4	NZC	ATM3023		5	600	100	2.5	3750
				ATM3051	15					
				ATM3052	100	10				
ATM303x		SOP-4	ZC	ATM3053		5	250	100	3	3750
				ATM3031	15					
				ATM3032	100	10				
ATM3033	5									

产品型号参数：

Part Number	Pin Configuration	Package	ZC or NZC	Device Name	I_{TRMS} (mA)	I_{FT} Max(mA)	V_{DRM} Min(V)	I_{DRM} Max(μ A)	V_{TM} Max(V)	Viso @1min (Vrams)			
AT301x		DIP-6 SMD-6	NZC	AT3010		15	250	100	2.5	5000			
				AT3011	100	10							
				AT3012	5								
AT302x		DIP-6 SMD-6	NZC	AT3020		30	400	100	2.5	5000			
				AT3021	15								
				AT3022	10								
AT3023	5												
AT305x		DIP-6 SMD-6	NZC	AT3051		15	600	100	2.5	5000			
				AT3052	100	10					600	100	2.5
				AT3053	5								
AT303x		DIP-6 SMD-6	ZC	AT3031		15	250	100	3	5000			
				AT3032	100	10					250	100	3
				AT3033	5								
AT304x		DIP-6 SMD-6	ZC	AT3041		15	400	100	3	5000			
				AT3042	100	10					400	100	3
				AT3043	5								
AT306x		DIP-6 SMD-6	ZC	AT3061		15	600	500	3	5000			
				AT3062	100	10					600	500	3
				AT3063	5								
AT308x		DIP-6 SMD-6	ZC	AT3081		15	800	500	3	5000			
				AT3082	100	10					800	500	3
				AT3083	5								
ATM304x		SOP-4	ZC	ATM3041		15	400	100	3	3750			
				ATM3042	100	10					400	100	3
				ATM3043	5								
ATM306x		SOP-4	ZC	ATM3061		15	600	500	3	3750			
				ATM3062	100	10					600	500	3
				ATM3063	5								
ATM308x		SOP-4	ZC	ATM3081		15	800	500	3	3750			
				ATM3082	100	10					800	500	3
				ATM3083	5								

产品型号参数：

Part Number	Pin Configuration	Package	ZC or NZC	Device Name	$I_{T(RMS)}$ (mA)	I_{FT} Max(mA)	V_{DRM} Min(V)	I_{DRM} Max(μ A)	V_{TM} Max(V)	Viso @1min (Vrams)
ATx223		DIP-7 SMD-7	NZC	AT0223	300	10	600	100	2.5	5000
				AT1223	600					
				AT2223	900					
				AT3223	1200					
ATx213		DIP-7 SMD-7	ZC	AT0213	300	10	600	100	2.5	5000
				AT1213	600					
				AT2213	900					
				AT3213	1200					
AT52x		DIP-4 DIP-4M SMD-4	NZC	AT520	30	250	100	3	5000	
AT521				15						
AT522				15						
AT55x		DIP-4 DIP-4M SMD-4	NZC	AT523	5	600	100	2.5	5000	
AT551				15						
AT552				100						
AT553	5									
AT53x		DIP-4 DIP-4M SMD-4	ZC	AT531	15	250	100	3	5000	
AT532				100						
AT533				5						
AT54x		DIP-4 DIP-4M SMD-4	ZC	AT541	15	400	100	3	5000	
AT542				100						
AT543				5						
AT56x		DIP-4 DIP-4M SMD-4	ZC	AT561	15	600	500	3	5000	
AT562				100						
AT563				5						
AT58x		DIP-4 DIP-4M SMD-4	ZC	AT581	15	800	500	3	5000	
AT582				100						
AT583				5						

产品型号参数：

Part Number	Pin Configuration	Package	ZC or NZC	Device Name	$I_{T(RMS)}$ (mA)	I_{FT} Max(mA)	V_{DRM} Min(V)	I_{DRM} Max(μ A)	V_{TM} Max(V)	Viso @1min (Vrams)
AT201x		DIP-5 SMD-5	NZC	AT2011		15	250	100	2.5	5000
				AT2012	100	10				
				AT2013		5				
AT202x		DIP-5 SMD-5	NZC	AT2020		30	400	100	2.5	5000
				AT2021	100	15				
				AT2022		10				
				AT2023		5				
AT205x		DIP-5 SMD-5	NZC	AT2051		15	600	100	2.5	5000
				AT2052	100	10				
				AT2053		5				
AT203x		DIP-5 SMD-5	ZC	AT2031		15	250	100	3	5000
				AT2032	100	10				
				AT2033		5				
AT204x		DIP-5 SMD-5	ZC	AT2041		15	400	100	3	5000
				AT2042	100	10				
				AT2043		5				
AT206x		DIP-5 SMD-5	ZC	AT2061		15	600	500	3	5000
				AT2062	100	10				
				AT2063		5				
AT208x		DIP-5 SMD-5	ZC	AT2081		15	800	500	3	5000
				AT2082	100	10				
				AT2083		5				

高速光耦



>> 产品应用：

- Automobile drive electronic control system
汽车驱动电控系统
- Instrument instrument
仪器仪表
- Line reception
线路接收

>> 产品特点：

- Small size, close coupling, low driving power, fast action speed and wide working temperature range
体积小、耦合密切、驱动功率小、动作速度快、工作温度范围宽
- It has the advantages of unidirectional information transmission, wide frequency band, small parasitic feedback, strong noise elimination ability and good electromagnetic
具有可单向传递信息、通频宽带、寄生反馈小、消噪能力强、抗电磁干扰性能好
- Provide fast switching speed, thereby reducing dead time and improving moving efficiency and precision, and the response speed reaches ns order of magnitude
提供快速开关速度，进而降低停滞时间并提高移动效率和精度，响应速度达到 ns 量级
- Safety certification: CQC/UL/VDE/State grid certification
安规认证：CQC/UL/VDE/SGS/ 国网认证等
- Product certification: SGS/ROHS&REACH
产品认证：SGS/ROHS&REACH/ 无卤等

产品型号参数：

施密特触发型

Part Number	Pin Configuration	Package	DTR (Mbps)	I _{on} Typ (mA)	I _{off} Typ (mA)	Output		V _{cc} (V)	t _{on} Max (us)	t _{off} Max (us)	Viso @1min (Vrms)
						t _r (us)	t _f (us)				
ATH11L1		DIP-6 SMD-6	1	1.6	1						
ATH11L2				10	1	0.1	0.1	15	4	4	5000
ATH11L3				5	1						

产品型号参数：

推挽输出型

Part Number	Pin Configuration	Package	DTR (Mbps)	Output		V _{cc} (V)	t _{PHL} Max (ns)	t _{PHL} Max (ns)	CMR Min (V/us)	Viso @1min (Vrms)
				t _r (us)	t _f (us)					
AT7720		DIP-8 SMD-8	15	30	30	5.5	55	55	10000	5000
AT7721			25	9	8	5.5	40	40	10000	
AT7723			50	8	6	5.5	22	22	10000	
AT0720		SOP-8	15	30	30	5.5	55	55	10000	3750
AT0721			25	9	8	5.5	40	40	10000	
AT0723			50	8	6	5.5	22	22	10000	
ATN7720		WDIP-8 WSMD-8	15	30	30	5.5	55	55	10000	5000
ATN7721			25	9	8	5.5	40	40	10000	
ATN7723			50	8	6	5.5	22	22	10000	
ATC7720		WSOP-8	15	30	30	5.5	55	55	10000	3750
ATC7721			25	9	8	5.5	40	40	10000	
ATC7723			50	8	6	5.5	22	22	10000	
ATC261L		WDIP-8 WSMD-8								
ATC261L		WSOP-8	10	10	10	5	90	90	20000	5000
ATM720		SOP-5	15	30	30	5.5	55	55	10000	3750
ATM721			25	9	8	5.5	40	40	10000	
ATM723			50	8	6	5.5	22	22	10000	

产品型号参数：

推挽输出型

Part Number	Pin Configuration	Package	DTR (Mbps)	Output		Vcc (V)	t _{PHL} Max (ns)	t _{PHL} Max (ns)	CMR Max (ns)	Viso @1min (Vrms)
				t _r (us)	t _f (us)					
ATW720		SOP6-P SOP6-W	15	30	30	5.5	55	55	10000	3750
ATW721			25	9	8	5.5	40	40	10000	
ATW723			50	8	6	5.5	22	22	10000	
ATC74L		WSOP-8	15	3.5	3.5	5.5	55	55	10000	3750
AT074L		SOP-8	15	20	25	6	50	50	10000	3750
AT075L			15	20	25	6	50	50	10000	3750
ATC64L		WSOP-8	10	10	10	5.5	80	80	20000	5000

集电极断开型

Part Number	Pin Configuration	Package	DTR (Mbps)	Output		Vcc (V)	t _{PHL} Max (ns)	t _{PHL} Max (ns)	CMR Max (ns)	Viso @1min (Vrms)
				t _r (us)	t _f (us)					
AT6N135		DIP-8 SMD-8	1	5	50	30	2	1	10000	5000
AT6N136		15		50	30	2	1	10000		
ATN135		WDIP-8 WSMD-8	1	15	50	30	0.8	1	10000	5000
ATN136		15		50	30	0.8	0.8	10000		
AT0501		SOP-8	1	15	50	30	0.8	0.8	5000	3750
AT0511		WSOP-8								
ATC501										
ATC511										
ATM501		SOP-5	1	15	50	30	0.8	0.8	5000	3750
ATM511				15	50	30	0.8	0.8	10000	
ATW501		SOP6-P SOP6-W	1	15	50	30	0.8	0.8	5000	5000
ATW511				15	50	30	0.8	0.8	10000	

产品型号参数：

直流输入型

Part Number	Pin Configuration	Package	DTR (Mbps)	Output		Vcc (V)	t _{PHL} Max (ns)	t _{PHL} Max (ns)	CMR Max (ns)	Viso @1min (Vrms)	
				t _r (us)	t _f (us)						
AT0530		SOP-8	1	7	50	30	1.5	1.5	1000	3750	
AT0531				19	50	30	0.8	0.8	1000		
AT0534				19	50	30	0.8	0.8	15000		
AT6N137		DIP-8 SMD-8	10	--	--	5.5	0.1	0.1	5000	5000	
ATN137		WDIP-8 WSMD-8		--	--	5.5	30	0.8	5000		
AT0601		SOP-8		--	--	5.5	0.075	0.075	5000		
AT0611				--	--	5.5	0.075	0.075	20000		
ATC601	WSOP-8	--	--	5.5	0.075	0.075	5000	5000			
ATC611		--	--	5.5	0.075	0.075	20000				
ATM601		SOP-5	10	--	--	5.5	0.1	0.1	5000	3750	
ATM611				--	--	5.5	0.1	0.1	20000		
ATW601		SOP5	10	--	--	5.5	0.1	0.1	5000	5000	
ATW611				--	--	5.5	0.1	0.1	20000		
AT0630		SOP-8	10	--	--	5.5	0.075	0.075	5000	3750	
AT0631				--	--	5.5	0.075	0.075	20000		
AT2601		WDIP-10 WSMD-10	10	--	--	5.5	0.12	0.12	20000	5000	
AT6N437		WSOP-16	10	--	--	5.5	0.1	0.1	5000	5000	
ATW720		SOP6-P SOP6-W	15	30	30	5.5	55	55	10000	7500	
ATW721				25	9	8	5.5	40	40		10000
ATW723				50	8	6	5.5	22	22		10000

栅极驱动光耦



产品应用：

- Actuating Motor 伺服电机
- Industrial Frequency Converter 工业变频器

产品特点：

- The gate-driven optocoupler is used to provide enhanced electrical insulation between the control circuit and the high voltage 栅极驱动光耦用于在控制电路和高压之间，提供增强的电绝缘
- This kind of optocoupler is suitable for driving power IGBT and MOSFET, and the higher output voltage can meet the gate voltage driving requirements of power devices. 此类光耦适合驱动功率IGBT和MOSFET，较高的输出电压能达到功率器件的栅极电压驱动要求
- Its ability to suppress high common mode noise can prevent the misoperation of power semiconductor during high frequency switching 其抑制高共模噪声的能力可防止在高频开关期间功率半导体的误动作
- Safety certification: CQC/UL/VDE/State grid certification 安规认证：CQC/UL/VDE/SGS/国网认证等
- Product certification: SGS/ROHS&REACH 产品认证：SGS/ROHS&REACH/无卤等

产品型号参数：

Part Number	Pin Configuration	Package	IOPEAK Max (A)	IFLH Max (mA)	Vcc (V)	tPHL Max (us)	tPHL Min (us)	CMR Min (V/us)	Viso @1min (Vrms)
AT3150		DIP-8 SMD-8	0.6	5	30	0.5	0.5	35000	5000
AT3120			2.5	5	30	0.4	0.4	35000	
AT0314		SOP-8	0.6	7	30	0.7	0.7	25000	3750
AT0341			3	4	30	0.2	0.2	35000	
AT0343			4	4	30	0.5	0.5	35000	

产品型号参数：

Part Number	Pin Configuration	Package	IOPEAK Max (A)	IFLH Max (mA)	Vcc (V)	tPHL Max (us)	tPHL Min (us)	CMR Min (V/us)	Viso @1min (Vrms)
ATN3120		WDIP-8 WSMD-8	2	8	35	0.5	0.5	35000	5000
ATN3150			0.6	5	30	0.5	0.5	35000	
AT350		DIP-8 SMD-8	2.5	5	30	0.4	0.4	25000	5000
ATN350		WDIP-8 WSMD-8	2.5	5	30	0.4	0.4	25000	
AT155		SOP-5	1	7.5	30	0.2	0.2	20000	3750
ATM314			0.6	7	30	0.7	0.7	25000	
ATM341			3	4	30	0.2	0.2	35000	
ATM343		SOP6-P SOP6-W	4	4	30	0.2	0.2	35000	5000
AT314			0.6	7	30	0.7	0.7	35000	
AT340			1	4	30	0.2	0.2	35000	
AT341			3	4	30	0.2	0.2	35000	
AT343	4	4	30	0.2	0.2	35000			

智能栅极驱动光耦



产品应用：

- Industrial inverter and UPS power supply, etc
工业逆变器及 UPS 电源等
- IGBT and power MOS isolated drive (such as high-power power board)
IGBT 和功率 MOS 隔离驱动（比如大功率电源板）
- Brushless motor drive (such as industrial application: elevator motor, water pump, etc.)
无刷电机驱动（比如工业应用：电梯马达、水泵等）

产品特点：

- Compared with the gate-driven optocoupler, the intelligent IGBT gate-driven optocoupler contains various protection functions
相对于栅极驱动光耦，智能 IGBT 栅极驱动光耦包含各种保护功能
- Active Miller clamp and fault output function to protect IGBT from overcurrent generated by inverter and other circuit
有源米勒钳和故障输出功能，以保护 IGBT 免受逆变器和其他电路产生的过电流
- The integrated protection function of IGBT gate drive is helpful to improve the system security, shorten the design time and reduce the circuit area
IGBT 栅极驱动的综合保护功能有助于提高系统安全性，缩短设计时间并减少电路占地面积
- Safety certification: CQC/UL/VDE/SGS/(ROHS&REACH)
安规认证：CQC/UL/VDE/SGS/(ROHS&REACH) 等

产品型号参数：

Part Number	Pin Configuration	Package	IOPEAK Max (A)	IFON Min (mA)	Vcc (V)	tPHL Max (ns)	tPLH Max (ns)	CMR Min (V/us)	Viso @1min (Vrms)	Features
AT316J		SOP-16	2.5	7	30	500	500	1500	5000	2.5A IGBT Gate Driver with Integrated (VCE) Desaturation Detection, UVLO, Fault Feedback

产品型号参数：

Part Number	Pin Configuration	Package	IOPEAK Max (A)	IFON Min (mA)	Vcc (V)	tPHL Max (ns)	tPLH Max (ns)	CMR Min (V/us)	Viso @1min (Vrms)	Features
AT330J		SOP-16	1.5	7	30	250	250	1500	5000	1.5A IGBT Gate Driver with Integrated (VCE) Desaturation Detection, UVLO, Fault Feedback, Active Miller Clamp and Auto-Fault Reset
AT331J		SOP-16	1.5	7	30	250	250	1500	5000	1.5A IGBT Gate Driver with Integrated (VCE) Desaturation Detection, UVLO, Fault Feedback and Active Miller Clamp
AT332J		SOP-16	2.5	7	30	250	250	1500	5000	2.5A IGBT Gate Driver with Integrated (VCE) Desaturation Detection, UVLO, Fault Feedback and Active Miller Clamp
AT333J		SOP-16	2.5	7	30	250	250	1500	5000	2.5A IGBT Gate Driver with Integrated (VCE) Desaturation Detection, UVLO, Fault Feedback and Active Miller Clamp and Auto-Fault Reset

智能功率模块接口光耦



产品应用：

- Universal digital isolation
通用数字隔离
- Industrial frequency converter
工业变频器
- IPM interface isolation (e.g. intelligent power module)
IPM 接口隔离 (比如：智能功率模块)
- Isolated IGBT/MOSFET gate drivers (such as high-power power boards)
隔离 IGBT/MOSFET 门驱动器 (比如大功率电源板)
- AC and brushless DC motor drive (such as household appliances: air conditioners, washing machines, etc.)
交流和无刷直流电机驱动 (比如家用电器：空调、洗衣机等)

产品特点：

- Fast IGBT switch with short propagation delay
拥有短传播延迟、快速 IGBT 开关
- High common-mode transient suppression capability and wide operating temperature range
高共模瞬变抑制能力和宽广工作温度范围
- It has the function of strengthening insulation and is very suitable for IPM interface drive applications
具有强化绝缘功能，非常适合 IPM 接口驱动应用
- The interface optocoupler of intelligent power module is generally the gate-level drive interface optocoupler of intelligent power module with high CMR
智能功率模块接口光耦一般是具有高 CMR 的智能功率模块的门级驱动接口光耦
- Safety certification: CQC/UL/VDE/State grid certification
安规认证：CQC/UL/VDE/SGS/ 国网认证等
- Product certification: SGS/ROHS&REACH
产品认证：SGS/ROHS&REACH/ 无卤等

产品型号参数：

Part Number	Pin Configuration	Package	I _{on} Min (mA)	CTR			t _{PHL} Max (us)	t _{PLH} Max (us)	PDD Max (us)	CMR Min (V/us)	Viso @1min (Vrms)
				Min (%)	Max (%)	@I _E (mA)					
AT480		SOP6-P SOP6-W	6	--	--	--	0.35	0.35	0.25	20000	5000
ATM480		SOP-5	6	--	--	--	0.35	0.35	0.25	20000	3750
AT481		SOP6-P SOP6-W	6	--	--	--	0.35	0.35	0.25	20000	5000
ATM481		SOP-5	6	--	--	--	0.35	0.35	0.25	20000	3750
ATM456		SOP-5	10	44	>90	10	0.4	0.55	0.45	1500	3750
AT4504		DIP-8 SMD-8	12	26	65	12	0.5	0.7	1.3	1500	5000
ATN4504		WDIP-8 WSMD-8	16	25	63	12	0.5	0.7	1.3	1500	5000
ATC4504		WSOP-8	16	19	50	16	0.5	0.7	1	1500	5000
AT4506		DIP-8 SMD-8	10	44	>90	10	0.49	0.6	0.45	1500	5000
ATN4506		WDIP-8 WSMD-8	10	44	>90	10	0.49	0.6	0.45	1500	5000
ATC4506		WSOP-8	10	44	>90	10	0.49	0.6	0.45	1500	5000

隔离运算放大器



产品应用：

- Signal acquisition (motor phase, line voltage/current, etc.)
信号采集 (马达相位、 线路电压 / 电流等)
- Products with motor (detecting motor phase and line AC)
带马达的产品 (检测马达相位和线路交流)
- Inverter products (line overcurrent detection, etc.)
逆变器产品 (线路过流检测等)

产品特点：

- Isolation voltage above 5000V can be tolerated between input and output stages.
输入与输出级间可以承受 5000V 以上的绝缘电压
- The signal is transmitted in one direction, the input end and the output end are completely electrically isolated, and the output signal has no influence on the input end.
信号单向传输、 输入端与输出端完全实现电气隔离、 输输出信号对输入端无影响
- Strong anti-interference ability, stable work, no contact, long service life and high transmission efficiency.
抗干扰能力强、 工作稳定、 无触点、 使用寿命长、 传输效率高
- Safety certification: CQC/UL/VDE/State grid certification
安规认证 : CQC/UL/VDE/SGS/ 国网认证等
- Product certification: SGS/ROHS&REACH
产品认证 : SGS/ROHS&REACH/ 无卤等

产品型号参数：

Part Number	Pin Configuration	Package	Gain Error at 25 °C Max (%)	Nonlinearity Typ (%)	Band width TYP(kHz)	VDD(V)	CMR Min (V/us)	Viso @1min (Vrms)
AT7840		DIP-8 SMD-8	±5	0.0037	100	5.5	10000	5000
ATC790		WSOP-8	±3	0.05	200	5.5	10000	5000
ATC79A		WSOP-8	±1	0.05	200	5.5	10000	5000
ATC79B		WSOP-8	±0.5	0.05	200	5.5	10000	5000
ATC87AT		WSOP-8	±1	0.05	100	5.5	10000	5000
ATC87BT		WSOP-8	±0.5	0.05	100	5.5	10000	5000
ATH790		LSOP-8	±3	0.05	200	5.5	15000	5000



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