



# ANALOG PRODUCTS SELECTION

## 模拟产品选型



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# ABOUT 3PEAK

## 关于思瑞浦

思瑞浦微电子科技(苏州)股份有限公司(英文:3PEAKINCORPORATED, 股票代码:688536),成立于2012年,2020年9月21日在上海证券交易所科创板上市。

公司始终坚持研发高性能、高质量和高可靠性的集成电路产品,包括信号链模拟芯片、电源管理模拟芯片和数模混合模拟前端,并逐渐融合嵌入式处理器,为客户提供全方面的解决方案。其应用范围涵盖信息通讯、工业控制、监控安全、医疗健康、仪器仪表、新能源和汽车等众多领域。

Established in 2012, 3PEAK was listed on the Shanghai Science and Technology Innovation Board on September 21, 2020. The company is committed to the research and development of high-performance, high-quality, and highly reliable integrated circuit products, including signal chains, power analog chips, mixed-signal front-ends, and embedded processors to provide customers with all-around solutions. The applications of the products cover many fields such as communication, industrial, security monitoring, medical and health, instrumentation, new energy, and automotive industry.

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# 运算放大器

## OPERATIONAL AMPLIFIERS

### 低压低功耗运算放大器 (电源电压 <10V, 每通道电流 <10 $\mu$ A)

#### Low-Voltage Low-Power Operational Amplifiers (Supply Voltage <10V, Current per channel <10 $\mu$ A)

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel ( $\mu$ A)(Max)	GBWP (kHz)(Typ.)	Slew Rate (mV/ $\mu$ s)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC ( $\mu$ V/ $^{\circ}$ C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/ $\sqrt{\text{Hz}}$ )(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TPA5511	Preview	Industrial	1	1.7	3.6	0.79	9	3	Yes	Yes	25	0.02	0.01	20	320	125	SOT23-5
TPA5512	Preview	Industrial	2	1.7	3.6	0.79	9	3	Yes	Yes	25	0.02	0.01	20	320	125	SOP8、MSOP8
TP2111	Production	Industrial	1	1.8	5.5	0.6	10	6	Yes	Yes	20	1.5	0.4	1	265	120	SOT23-5、SC70-5
TP2112	Production	Industrial	2	1.8	5.5	0.6	10	6	Yes	Yes	20	1.5	0.4	1	265	120	SOP8、MSOP8
TP2121	Production	Industrial	1	1.8	6	0.95	18	10	Yes	Yes	20	1.5	0.5	1	170	120	SOT23-5、SC70-5
TP2122	Production	Industrial	2	1.8	6	0.95	18	10	Yes	Yes	20	1.5	0.5	0.001	170	120	SOP8、MSOP8
TP2124	Production	Industrial	4	1.8	6	0.95	18	10	Yes	Yes	20	1.5	0.5	0.001	170	120	SOP14、TSSOP14
TP2191	Production	Industrial	1	1.8	6	0.9	18	10	Yes	Yes	20	0.6	0.4	1	170	120	SC70-5
TP1511	Production	Industrial	1	2.1	6	5.6	150	90	Yes	Yes	40	3	0.6	1	95	102	SOT23-5
TP1512	Production	Industrial	2	2.1	6	5.6	150	90	Yes	Yes	40	3	0.6	1	95	102	SOP8、MSOP8
TP1514	Production	Industrial	4	2.1	6	5.6	150	90	Yes	Yes	40	3	0.6	1	95	102	SOP14

**低压通用运算放大器 (电源电压 <10V, GBPW 0.1M~50MHz, Vos>0.5mV)**  
**Low-Voltage General Operational Amplifiers (Supply Voltage<10V, GBPW 0.1M~50MHz, Vos>0.5mV)**

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel (uA)(Max)	GBWP (MHz)(Typ.)	Slew Rate (V/μs)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC (μV/°C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/√Hz)(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TP1511	Production	Industrial	1	2.1	6	5.6	0.15	0.09	Yes	Yes	40	3	1	1	95	102	SOT23-5
TP1512	Production	Industrial	2	2.1	6	5.6	0.15	0.09	Yes	Yes	40	3	1	1	95	102	SOP8、MSOP8
TP1514	Production	Industrial	4	2.1	6	5.6	0.15	0.09	Yes	Yes	40	3	0.6	1	95	102	SOP14
TPA6531	Production	Industrial	1	1.75	5.5	25	0.5	0.15	Yes	Yes	90/240	1.5	1	25000	50	90	SOT23-5
TPA6532	Production	Industrial	2	1.75	5.5	25	0.5	0.15	Yes	Yes	90/240	1.5	1	25000	50	90	SOP8、MSOP8
TPA6544	Production	Industrial	4	1.75	5.5	25	0.5	0.15	Yes	Yes	90/240	1.5	1	25000	50	90	SOP14、TSSOP14
TP6001	Production	Industrial	1	2.1	6	130	1.3	0.7	Yes	Yes	50	3	1	1	27	110	SOT23-5、SC70-5
TP6002	Production	Industrial	2	2.1	6	130	1.3	0.7	Yes	Yes	50	3	1	1	27	110	SOP8、MSOP8、DFN-8
TP6004	Production	Industrial	4	2.1	6	130	1.3	0.7	Yes	Yes	50	3	1	1	27	110	SOP14、TSSOP14
TP2431	Production	Industrial	1	2.2	5.5	280	1.6	0.84	Yes	Yes	130	1	1	0.3	13	130	SOT23-5
TP2432	Production	Industrial	2	2.2	5.5	280	1.6	0.84	Yes	Yes	130	1	1	0.3	13	130	SOP8、MSOP8
TP2434	Production	Industrial	4	2.2	5.5	280	1.6	0.84	Yes	Yes	130	1	1	0.3	13	130	SOP14、TSSOP14
TP1561AL1	Production	Industrial Automotive	1	2.5	6	900	6	4.5	Yes	Yes	100	3	1	1	19	100	SOT23-5
TP1562AL1	Production	Industrial Automotive	2	2.5	6	900	6	4.5	Yes	Yes	100	3	1	1	19	100	SOP8、MSOP8、TSSOP8、SOT23-8、DFN2X2-8
TP1564AL1	Production	Industrial Automotive	4	2.5	6	900	6	4.5	Yes	Yes	100	3	1	1	19	100	SOP14、TSSOP14
TP2411	Production	Industrial	1	2.2	5.5	1950	10	7	Yes	Yes	130	1	1	0.3	8.2	130	SOT23-5
TP2412	Production	Industrial	2	2.2	5.5	1950	10	7	Yes	Yes	130	1	1	0.3	8.2	130	SOP8、MSOP8、SOT23-8、TSSOP8
TP2414	Production	Industrial	4	2.2	5.5	1950	10	7	Yes	Yes	130	1	1	0.3	8.2	130	SOP14、TSSOP14
TPA6581	Production	Industrial	1	2.7	5.5	1500	10	8	Yes	Yes	135/120	2	0.1	10	10	120	SOT23-5、SC70-5、DFN 0.8X0.8-4
TPA6582	Production	Industrial	2	2.7	5.5	1500	10	8	Yes	Yes	135/120	2	0.1	10	10	120	SOP8、MSOP8
TPA6584	Production	Industrial	4	2.7	5.5	1500	10	8	Yes	Yes	135/120	2	0.1	10	10	120	SOP14、TSSOP14
TPA6551	Preview	Industrial	1	2.5	5.5	/	10	3	Yes	Yes	90/120	1	2	400000	10	100	SOT23-5、SOT23-6
TPA6552	Preview	Industrial	2	2.5	5.5	/	10	3	Yes	Yes	90/120	1	2	400,000	10	100	SOP8、MSOP8
TPA6554	Preview	Industrial	4	2.5	5.5	/	10	3	Yes	Yes	90/120	1	2	400,000	10	100	SOP14、TSSOP14
TP2402	Production	Industrial	2	2.2	5.5	5000	20	25	Yes	Yes	130	1	1	0.3	7.3	130	SOP8
TP2404	Production	Industrial	4	2.2	5.5	5000	20	25	Yes	Yes	130	1	1	0.3	7.3	130	SOP14、TSSOP14

Contact 3PEAK Sales For More Products Information and Samples

## 低压精密运算放大器 (电源电压小于 10V, Vos ≤ 0.5mV) Low-Voltage Precision Operational Amplifiers (Supply Voltage<10V, Vos ≤ 0.5mV)

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel (uA)(Max)	GBWP (MHz)(Typ.)	Slew Rate (V/μs)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC (μV/°C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/√Hz)(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TPA5511	Preview	Industrial	1	1.7	3.6	0.79	0.009	0.003	Yes	Yes	25	0.02	0.01	20	320	125	SOT23-5
TPA5512	Preview	Industrial	2	1.7	3.6	0.79	0.009	0.003	Yes	Yes	25	0.02	0.01	20	320	125	SOP8、MSOP8
TPA5521	Preview	Industrial	1	1.7	3.6	15	0.1	0.02	Yes	Yes	25	0.02	0.01	50	100	125	SOT23-5
TPA5522	Preview	Industrial	2	1.7	3.6	15	0.1	0.02	Yes	Yes	25	0.02	0.01	50	100	125	SOP8、MSOP8
TP5531	Production	Industrial	1	1.8	5.5	55	0.35	0.16	Yes	Yes	60	0.01	0.008	50	55	140	SOT23-5、SC70-5
TP5532	Production	Industrial	2	1.8	5.5	55	0.35	0.16	Yes	Yes	60	0.01	0.008	50	55	140	SOP8、MSOP8、DFN2X2-8
TP5534	Production	Industrial	4	1.8	5.5	55	0.35	0.16	Yes	Yes	60	0.01	0.008	50	55	140	SOP14、TSSOP14
TP2331	Production	Industrial	1	2.2	5.5	280	1.6	0.84	Yes	Yes	130	0.05	1	0.3	13	130	SOT23-5
TP2332	Production	Industrial	2	2.2	5.5	280	1.6	0.84	Yes	Yes	130	0.05	1	0.3	13	130	SOP8、MSOP8
TP5591	Production	Industrial	1	1.8	5.5	1400	3.3	2.5	Yes	Yes	60	0.02	0.01	60	17	130	SOT23-5、SOP8
TP5592	Production	Industrial	2	1.8	5.5	1400	3.3	2.5	Yes	Yes	60	0.02	0.01	60	17	130	SOP8、MSOP8
TP5594	Production	Industrial	4	1.8	5.5	1400	3.3	2.5	Yes	Yes	60	0.02	0.01	60	17	130	SOP14、TSSOP14
TP5551	Production	Industrial	1	1.8	5.5	1400	3.5	2.5	Yes	Yes	60	0.005	0.008	50	15	120	SOT23-5、SOP8
TP5552	Production	Industrial	2	1.8	5.5	950	3.5	2.5	Yes	Yes	60	0.005	0.008	50	15	120	SOP8、MSOP8
TP5554	Production	Industrial	4	1.8	5.5	950	3.5	2.5	Yes	Yes	60	0.005	0.008	50	15	120	TSSOP14
TPA5561	Preview	Industrial Automotive	1	2.7	5.5	1000	3.5	4.7	Yes	Yes	60	0.0075	0.01	200	12	150	SOT23-5
TPA5562	Preview	Industrial	2	2.7	5.5	1000	3.5	4.7	Yes	Yes	60	0.0075	0.01	200	12	150	SOP8、MSOP8
TP2311	Production	Industrial	1	2.2	5.5	1950	10	7	Yes	Yes	130	0.05	1	0.3	8.2	130	SOT23-5
TP2312	Production	Industrial	2	2.2	5.5	1950	10	7	Yes	Yes	130	0.05	1	0.3	8.2	130	SOP8、MSOP8、SOT23-8
TP2314	Production	Industrial	4	2.2	5.5	1950	10	7	Yes	Yes	130	0.05	1	0.3	8.2	130	SOP14、TSSOP14
TPA5581	Preview	Industrial	1	2.7	5.5	1200	15	5	Yes	Yes	160	0.01	0.01	100	10	150	SOT23-5、SOT23-6
TPA5582	Preview	Industrial	2	2.7	5.5	1200	15	5	Yes	Yes	160	0.01	0.01	100	10	150	SOP8、MSOP8、DFN2X2-8
TP2301	Production	Industrial	1	2.2	5.5	5000	20	25	Yes	Yes	130	0.05	1	0.3	7.3	130	SOT23-5
TP2302	Production	Industrial	2	2.2	5.5	5000	20	25	Yes	Yes	130	0.05	1	0.3	7.3	130	SOP8、MSOP8

## 低压低噪声运算放大器 (电源电压 <10V, $eN@1kHz \leq 10nV/\sqrt{Hz}$ )

### Low-Voltage Low-Noise Operational Amplifiers (Supply Voltage<10V, $eN@1kHz \leq 10nV/\sqrt{Hz}$ )

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel (uA)(Max)	GBWP (MHz)(Typ.)	Slew Rate (V/μs)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC (μV/°C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/√Hz)(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TP2301	Production	Industrial	1	2.2	5.5	5000	20	25	Yes	Yes	130	0.05	1	0.3	7.3	130	SOT23-5
TP2302	Production	Industrial	2	2.2	5.5	5000	20	25	Yes	Yes	130	0.05	1	0.3	7.3	130	SOP8、MSOP8
TP2311	Production	Industrial	1	2.2	5.5	1950	10	7	Yes	Yes	130	0.05	1	0.3	8.2	130	SOT23-5
TP2312	Production	Industrial	2	2.2	5.5	1950	10	7	Yes	Yes	130	0.05	1	0.3	8.2	130	SOP8、MSOP8、SOT23-8
TP2314	Production	Industrial	4	2.2	5.5	1950	10	7	Yes	Yes	130	0.05	1	0.3	8.2	130	SOP14、TSSOP14
TP2402	Production	Industrial	2	2.2	5.5	5000	20	25	Yes	Yes	130	1	1	0.3	7.3	130	SOP8
TP2404	Production	Industrial	4	2.2	5.5	5000	20	25	Yes	Yes	130	1	1	0.3	7.3	130	SOP14、TSSOP14
TP2411	Production	Industrial	1	2.2	5.5	1950	10	7	Yes	Yes	130	1	1	0.3	8.2	130	SOT23-5
TP2412	Production	Industrial	2	2.2	5.5	1950	10	7	Yes	Yes	130	1	1	0.3	8.2	130	SOP8、MSOP8、SOT23-8、TSSOP8
TP2414	Production	Industrial	4	2.2	5.5	1950	10	7	Yes	Yes	130	1	1	0.3	8.2	130	SOP14、TSSOP14
TPH2501	Production	Industrial	1	2.5	5.5	10000	50	200	Yes	Yes	160	2	10	3	6.5	110	SOT23-5
TPH2502	Production	Industrial	2	2.5	5.5	7500	50	200	Yes	Yes	160	2	10	3	6.5	110	SOP8、MSOP8
TPH2503	Production	Industrial	1	2.5	5.5	10000	50	200	Yes	Yes	160	2	10	3	6.5	110	SOT23-6
TPH2504	Production	Industrial	4	2.5	5.5	7500	50	200	Yes	Yes	160	2	10	3	6.5	110	SOP14、TSSOP14
TPA6581	Production	Industrial	1	2.7	5.5	1500	10	8	Yes	Yes	135/120	2	0.1	10	10	120	SOT23-5、SC70-5、DFN-5,0.8X0.8
TPA6582	Production	Industrial	2	2.7	5.5	1500	10	8	Yes	Yes	135/120	2	0.1	10	10	120	SOP8、MSOP8
TPA6584	Production	Industrial	4	2.7	5.5	1500	10	8	Yes	Yes	135/120	2	0.1	10	10	120	SOP14、TSSOP14
TPA6551	Preview	Industrial	1	2.5	5.5	/	10	3	Yes	Yes	90/120	1	2	400000	10	100	SOT23-5、SOT23-6
TPA6552	Preview	Industrial	2	2.5	5.5	/	10	3	Yes	Yes	90/120	1	2	400000	10	100	SOP8、MSOP8
TPA6554	Preview	Industrial	4	2.5	5.5	/	10	3	Yes	Yes	90/120	1	2	400000	10	100	SOP14、TSSOP14
TPA5581	Preview	Industrial	1	2.7	5.5	1200	15	5	Yes	Yes	160	0.01	0.01	100	10	150	SOT23-5、SOT23-6
TPA5582	Preview	Industrial	2	2.7	5.5	1200	15	5	Yes	Yes	160	0.01	0.01	100	10	150	SOP8、MSOP8、DFN2X2-8

### 低压高速运算放大器 (电源电压 < 10V, GBWP ≥ 50MHz) Low-Voltage High-Speed Operational Amplifiers (Supply Voltage < 10V, GBWP ≥ 50MHz)

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel (uA)(Max)	GBWP (MHz)(Typ.)	Slew Rate (V/μs)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC (μV/°C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/√Hz)(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TPH2501	Production	Industrial	1	2.5	5.5	10000	50	200	Yes	Yes	160	2	10	3	6.5	110	SOT23-5
TPH2502	Production	Industrial	2	2.5	5.5	7500	50	200	Yes	Yes	160	2	10	3	6.5	110	SOP8, MSOP8
TPH2503	Production	Industrial	1	2.5	5.5	10000	50	200	Yes	Yes	160	2	10	3	6.5	110	SOT23-6
TPH2504	Production	Industrial	4	2.5	5.5	7500	50	200	Yes	Yes	160	2	10	3	6.5	110	SOP14, TSSOP14

### 高压通用运算放大器 (电源电压 >10V, Vos>0.5mV) High-Voltage General Operational Amplifiers (Supply Voltage >10V, Vos>0.5mV)

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel (uA)(Max)	GBWP (MHz)(Typ.)	Slew Rate (V/μs)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC (μV/°C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/√Hz)(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TP2261	Production	Industrial	1	3	36	1500	3.5	15	to V- only	Yes	32	2	2	25	30	120	SOP8, SOT23-5
TP2262	Production	Industrial Automotive	2	3	36	1000	3.5	15	to V- only	Yes	32	2	2	25	30	120	SOP8, MSOP8, TSSOP8, DFN2X2-8, DFN3X3-8
TP2264	Production	Industrial	4	3	36	1000	3.5	15	to V- only	Yes	32	2	2	25	30	120	SOP14, TSSOP14
LM321A	Production	Industrial	1	3	36	200	0.9	0.5	to V- only	Yes	30	3	7	60	70	110	SOT23-5
LM358A	Production	Industrial	2	3	36	200	0.9	0.5	to V- only	Yes	30	3	7	60	70	110	SOP8, MSOP8, TSSOP8, DFN1.5X1.5-8
LM324A	Production	Industrial	4	3	36	200	1	0.5	to V- only	Yes	30	3	7	60	70	110	SOP14, TSSOP14
LM2904A	Production	Industrial Automotive	2	3	36	200	1	0.5	to V- only	Yes	30	3	7	60	70	110	SOP8, MSOP8, TSSOP8
LM2902A	Production	Industrial Automotive	4	3	36	200	1	0.5	to V- only	Yes	30	3	7	60	70	110	SOP14, TSSOP14
TP2581	Production	Industrial	1	3	36	5400	10	8	to V- only	Yes	32	3	2	25	35	120	SOT23-5
TP2582	Production	Industrial	2	3	36	4000	10	8	to V- only	Yes	32	3	2	25	35	120	SOP8, MSOP8, TSSOP8
TP2584	Production	Industrial	4	3	36	4000	10	8	to V- only	Yes	32	3	2	25	35	120	SOP14, TSSOP14
TPA2641	Production	Industrial	1	3	36	550	1.5	0.5	to V- only	No, to V- only	50	2	5	15000	50	130	SOT23-5
TPA2642	Production	Industrial	2	3	36	550	1.5	0.5	to V- only	No, to V- only	50	2	5	15000	50	130	SOP8, MSOP8
TPA2644	Production	Industrial	4	3	36	550	1.5	0.5	to V- only	No, to V- only	50	2	5	15000	50	130	SOP14, TSSOP14
TPA2681	Production	Industrial	1	8	36	8000	20	10	No	No	100/60	3	2	100000	10	105	SOT23-5
TPA2682	Production	Industrial	2	8	36	8000	20	10	No	No	100/60	3	2	100000	10	105	SOP8, MSOP8, TSSOP8

Contact 3PEAK Sales For More Products Information and Samples



## 高压高精度运算放大器 (电源电压大于 10V, Vos&lt;0.5mV)

## High-Voltage High-Precision Operational Amplifiers (Supply Voltage &gt;10V, Vos&lt;0.5mV)

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel (uA)(Max)	GBWP (MHz)(Typ.)	Slew Rate (V/μs)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC (μV/°C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/√Hz)(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TP1241	Production	Industrial	1	4.5	36	150(typ)	1	0.7	to V- only	Yes	80	0.25	2	25	45	120	SOT23-5
TP1242	Production	Industrial	2	4.5	36	1500	1	0.7	to V- only	Yes	80	0.25	2	25	45	120	SOP8、MSOP8
TP1281	Production	Industrial	1	4.5	36	2000	7	20	to V- only	Yes	32	0.1	1	25	25	130	SOP8、SOT23-5
TP1282	Production	Industrial	2	4.5	36	1600	7	20	to V- only	Yes	32	0.1	1	25	25	130	SOP8、MSOP8
TP1284	Production	Industrial	4	4.5	36	1600	7	20	to V- only	Yes	32	0.1	1	25	25	130	SOP14、TSSOP14
TP17	Production	Industrial	1	3	36	2000	6	20	to V- only	Yes	32	0.1	1	25	25	130	SOP8
TP07A	Production	Industrial	1	3	36	1500	1	0.7	to V- only	Yes	80	0.15	2	25	45	120	SOP8
TP27	Production	Industrial	1	4.5	36	1600	6	5	to V- only	Yes	95	0.05	0.01	100	8	140	SOP8
TPA1861	Production	Industrial	1	4.5	36	1600	6	5	to V- only	Yes	95	0.03	0.01	100	8	140	SOP8、SOT23-5
TPA1862	Production	Industrial	2	4.5	36	1600	6	5	to V- only	Yes	95	0.03	0.01	100	8	140	SOP8、MSOP8
TPA1864	Production	Industrial	4	4.5	36	1600	6	5	to V- only	Yes	95	0.03	0.01	100	8	140	SOP14、TSSOP14
TPA1881	Production	Industrial	1	4.5	36	2500	12	12	to V- only	Yes	95	0.015	0.05	100	6	155	SOP8、SOT23-5
TPA1882	Production	Industrial Automotive	2	4.5	36	2500	12	12	to V- only	Yes	95	0.015	0.05	100	6	155	SOP8、MSOP8

## 低偏置电流运算放大器 (Ib&lt;1pA)

## Low Bias Current Operational Amplifiers (Ib&lt;1pA)

Part Number	Status	Rating	CH	Supply Voltage (V)(Min)	Supply Voltage (V)(Max)	Iq per channel (uA)(Max)	GBWP (MHz)(Typ.)	Slew Rate (V/μs)(Typ.)	Rail-Rail In	Rail-Rail Out	Sink/Source Current (mA)(Typ.)	VOS (mV)(Max)	VOS TC (μV/°C)(Typ.)	IB (pA)(Typ.)	eN@1kHz (nV/√Hz)(Typ.)	Open Loop Gain (dB)(Typ.)	Package
TPA3530	Preview	Industrial	1	4.5	16	900(typ)	3	1.4	to V- only	Yes	30	0.25	2	0.001	16	140	SOP8

# 特殊放大器

## SPECIAL AMPLIFIERS

### 仪表放大器

#### Instrumentation Amplifiers

Part Number	Status	Rating	CH	CH	VDD (V)	IQ (mA, Max)	BW (MHz)	Slew Rate (V/ $\mu$ s)	I <sub>b</sub> (nA, Typ.)	VOS ( $\mu$ V, Max)	VOS TC ( $\mu$ V/ $^{\circ}$ C, Typ.)	CMRR (db, Min)	Gain (V/V)	Gain Error (% Max)	Package
TPA1286	Production	Industrial	1	1	4.5~36	4.5	1.6	5	0.3	0.05	0.1	80 at G=1	1~1000	0.05 at G=1	SOP8、MSOP8、DFN3X3-8

### 差动放大器

#### Differential Amplifiers

Part Number	Status	Rating	CH	VDD (V)	IQ (mA, Max)	BW (MHz)	VOS (mV, Max)	VOS TC ( $\mu$ V/ $^{\circ}$ C, Typ.)	Common Mode Voltage at VDD=30V (V)	CMRR (db, Min)	Gain (V/V)	Gain Error (% Max)	Package
TPA9361	Production	Industrial	1	4.5~36	2	3	0.3	2	-60 ~ +57	80	1	0.05	SOP8
TPA9151	Production	Industrial	1	4.5~36	3	0.5	1	2	-275 ~ +275	80	1	0.03	SOP8

### 对数放大器

#### Logarithmic Amplifiers

Part Number	Status	Rating	CH	VDD (V)	IQ (mA, Max)	Input Current Range	Logarithmic Slope (mV/dec, Typ.)	Law Conformance Error (dB, Max.)	Package
TPA8304	Production	Industrial	1	4.5~5.5	10	1nA to 12mA	200	0.25 at Input>10nA	TSSOP14、QFN3X3-16

### 带电压基准放大器

#### Amplifiers with Voltage Reference

Part Number	Status	Rating	CH	VDD (V)	IQ ( $\mu$ A, Typ.)	GBWP (MHz)	Slew Rate (V/ $\mu$ s)	I <sub>b</sub> (pA, Typ.)	VOS (mV, max)	VOS TC ( $\mu$ V/ $^{\circ}$ C, Typ.)	Reference Output (V, Typ.)	Reference Accuracy (% Max)	Package
TPA7252	Production	Industrial	2	3~36	220	1	0.5	50	4	2	2.5	1%, 0.4%	SOP-8

Contact 3PEAK Sales For More Products Information and Samples

## 电流信号检测放大器 Current Sensing Amplifiers

Part Number	Status	Rating	CH	VDD (V)	Common Mode Voltage (V)	IQ ( $\mu$ A, Typ.)	Ib ( $\mu$ A, Typ.)	VOS ( $\mu$ V, max)	Slew Rate (V/ $\mu$ s)	VOS TC ( $\mu$ V/ $^{\circ}$ C, Max)	Gain Drift (ppm/ $^{\circ}$ C, Max)	Output Type	Internal Comparator	Package
TP181	Production	Industrial	1	2.7~30	-0.3~36	120	35	100	0.6	0.5	10	Analog	N/A	SOT363
TP182	Production	Industrial	1	2.7~30	-0.3~36	120	35	50	0.6	0.5	10	Analog	N/A	SOT363
TPA183	Preview	Industrial	1	2.7~30, supply from IN+ pin	2.7~30	220	35	250	0.6	0.5	10	Analog	N/A	SOT23-5
TPA191	Preview	Industrial	1	2.7~36	-0.3~36	75	28	50	0.4	0.5	10	Analog	N/A	SOT363
TPA1285	Production	Industrial	2	3.0~5.5	3.0~76	750	65	100	0.6	0.5	10	Analog	N/A	MSOP8, WLCSP
TPA1295	Production	Industrial	1	3.0~18	0~70	1000	100	100	20	0.5	5	Analog	N/A	SOP8
TPA2295C	Production	Industrial	1	3.0~18	0~70	1000	100	500	20	0.5	5	Analog	1ch	MSOP8
TPA2296	Production	Industrial	1	3.0~18	0~70	1000	100	500	20	0.5	5	Analog	N/A	SOT23-5

## 音频线路驱动器 Audio Line Drivers

Part Number	Description	Package
TPF632A	2.7V~5.5V Power Supply, Differential Input, 3V <sub>RMS</sub> or 2V <sub>RMS</sub> Output	TSSOP-14
TPF632C	2.7V~5.5V Power Supply, Differential Input, 3V <sub>RMS</sub> or 2V <sub>RMS</sub> Output	TSSOP-14
TPF605A	2.7V~5.5V Power Supply, Single End Input, 3V <sub>RMS</sub> or 2V <sub>RMS</sub> Output	MSOP-10-EP
TPF605C	2.7V~5.5V Power Supply, Single End Input, 3V <sub>RMS</sub> or 2V <sub>RMS</sub> Output	MSOP-10-EP
TPF607A	2.7V~5.5V Power Supply, Single End Input, 3V <sub>RMS</sub> or 2V <sub>RMS</sub> Output, None UVP	MSOP-10

Contact 3PEAK Sales For More Products Information and Samples

## 视频滤波驱动器 Video Filter Drivers

Part Number	Status	Rating	Resolution	Channel	VDD (V)	Quiescent Current @3.3V(mA)	Voltage Gain (dB)	Stop-Band Rejection @27MHz(dB)	Diff. Gain (%)	Diff. Phase (Deg)	THD (%)	Package
TPF110	Production	Industrial	480i, 576i	1-SD	2.85~5.5	3.9	6	51.2	0.4	0.7	0.1	SOT23-6, SOT363
TPF111	Production	Industrial	480i, 576i	1-SD	3.0~5.5	3.8	6	51.2	0.4	0.7	0.1	SOT353
TPF113	Production	Industrial	480i, 576i	3-SD	3.0~5.5	11.6	6	51.2	0.4	0.7	0.1	SOP8
TPF114	Production	Industrial	480i, 576i	4-SD	3.0~5.5	16	6	51.2	0.4	0.7	0.1	MSOP10, TSSOP14
TPF116	Production	Industrial	480i, 576i	6-SD	3.0~5.5	23.2	6	51.2	0.4	0.7	0.1	TSSOP14
TPF130	Production	Industrial	720p, 1080i	1-HD	3.0~5.5	6	6	31.1dB@74.25MHz	0.2	0.4	0.3	SOT23-6
TPF131	Production	Industrial	720p, 1080i	1-HD	3.0~5.5	6	6	31.1dB@74.25MHz	0.2	0.4	0.3	SOT23-6
TPF133A	Production	Industrial	720p, 1080i	3-HD	3.0~5.5	18	6	31.1dB@74.25MHz	0.2	0.4	0.3	SOP8
TPF140	Production	Industrial	1080p, 1080i, 720p	1-FHD	3.0~5.5	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOT23-6
TPF141N	Production	Industrial	1080p, 1080i, 720p	1-FHD	3.0~5.5	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOT23-6
TPF141	Production	Industrial	1080p, 1080i, 720p	1-FHD	3.0~5.5	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOT23-6
TPF142	Production	Industrial	1080p, 1080i, 720p	1-SD & 1-FHD	3.0~5.5	14.5	6	31.2dB @148MHz	0.1	0.3	0.6	MSOP8, TSSOP14
TPF143	Production	Industrial	1080p, 1080i, 720p	3-FHD	3.0~5.5	34.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOP8
TPF144	Production	Industrial	1080p, 1080i, 720p	1-SD & 3-FHD	3.0~5.5	45	6	31.2dB @148MHz	0.1	0.3	0.6	MSOP8, TSSOP14
TPF153	Production	Industrial	1080p, 1080i	3-CH	3.0~5.5	33	6	/	0.4	0.3	0.2	SOP8
TPF147	Production	Industrial	1080P/60,1080P/30	1-FHD or HD	3.0~5.5	11.5	6	32dB@74MHz 34dB@148MHz	0.2/0.4	0.4/0.7	0.15	SOT23-6
TPF1341	Production	Industrial	1080P	1-HD	3.0~5.5	11	6	31.1dB@74.25MHz	0.2	0.4	0.3	SOP8, MSOP8
TPF1441	Production	Industrial	1080P/60	1-HD	3.0~5.5	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOP8, MSOP8
TPF1441C	Production	Industrial	1080P/60	1-HD	3.0~5.5	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOP8, MSOP8
TPF1441NC	Production	Industrial	1080P/60	1-HD	3.0~5.5	10	6	31.2dB @148MHz	0.1	0.3	0.6	MSOP8

# 传感器接口

## SENSOR INTERFACE

### 霍尔传感器接口

#### Hall Sensor Interface

Part Number	Status	Rating	Features	VDD (V)	Interface Type	Temperature Range (°C)	Package
TPAFE411	Production	Industrial	AFE for Magnetic Current Sensing	2.7~5.5	Analog Voltage	-40 to +125	QFN4X4-20

### 光学传感器接口

#### Optical Sensor Interface

Part Number	Status	Rating	Features	Supply Voltage Range (V)	Iq (maximum)( $\mu$ A)	Temperature Range (°C)	Package
TPA8801B	Production	Industrial	High Sensitivity Current Input Interface	2.1~5.5	700	-40 to +125	TSSOP14

# 模拟开关

## ANALOG SWITCH

### 高压开关

#### High Voltage Switch

Part Number	Status	Rating	CH	Switch Config	VDD (V)	VEE (V)	Input Range	BW (MHz)	I <sub>Q</sub> (Typ.)(1 Channel)( $\mu$ A)	R <sub>on</sub> ( $\Omega$ )	Leakage Current (nA)	V <sub>IH</sub> (Min)(V)	V <sub>IL</sub> (Max)(V)	t <sub>ON</sub> (ns)	t <sub>OFF</sub> (ns)	Latch up (mA)	Package
TPW4051	Production	Industrial	1	8:01	3~12	-6~0	VEE to VDD	200	8	120	100	2	0.8	60	50	150	SOP16, TSSOP16, QFN3X316
TPW4052	Production	Industrial	2	4:01	3~12	-6~0	VEE to VDD	200	8	120	100	2	0.8	60	50	150	SOP16, QFN3X3-16
TPW4053	Production	Industrial	3	2:01	3~12	-6~0	VEE to VDD	200	8	120	100	2	0.8	60	50	150	SOP16, QFN3X3-16
TPW4054	Production	Industrial	1	4:01	3~12	N/A	0V to VDD	200	8	120	100	2	0.8	60	50	150	MSOP10
TPW4066	Production	Industrial	4	1:01	3~12	N/A	0V to VDD	200	8	120	100	2	0.8	60	50	150	SOP14, TSSOP14
TPW4425	Production	Industrial	4	2:01	3~16	-8~0	VEE to VDD	200	1	10	100	1.5	0.5	320	130	150	TSSOP20, QFN4X4-20

### 低压开关

#### Low Voltage Switch

Part Number	Status	Rating	CH	Switch Config	VDD (V)	VEE (V)	Input Range	BW (MHz)	I <sub>Q</sub> (Typ.)(1 Channel)( $\mu$ A)	R <sub>on</sub> ( $\Omega$ )	Leakage Current (nA)	V <sub>IH</sub> (Min)(V)	V <sub>IL</sub> (Max)(V)	t <sub>ON</sub> (ns)	t <sub>OFF</sub> (ns)	Latch up (mA)	Package
TPW3111	Production	Industrial	1	1:01	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	600	SOT23-5
TPW3115	Production	Industrial	1	1:01	1.65~5.5	N/A	0V to VDD	250	0.3	5	10	1.5	0.7	100	100	600	SOT23-5, SOT353
TPW4157	Production	Industrial	1	2:01	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	800	SOT363
TPW3157A	Production	Industrial	1	2:01	1.65~5.5	N/A	0V to VDD	100	0.3	2	10	2.4	0.8	40	15	800	SOT363
TPW3125	Production	Industrial	1	2:01	1.65~5.5	N/A	0V to VDD	250	0.3	5	10	1.42	0.7	100	100	600	SOT23-5, SOT363
TPW3221	Production	Industrial	2	2:01	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	800	MSOP10, DFN3X3-10
TPW3223	Production	Industrial	2	2:01	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	800	QFN1.4X1.8-10
TPW1221	Production	Industrial	2	2:01	1.65~5.5	N/A	-2.5V to VDD	60	0.3	0.9	100	1.6	0.6	100	60	300	QFN1.4X1.8-10

# 比较器

## COMPARATORS

Part Number	Status	Rating	CH	VDD (V)	IQ (Typ.)(per CH)	IQ (Max.)(per CH)	tPD+	tPD-	VOS (max)(mV)	Hyst. (mV)	Output Type	Package
TP1981	Production	Industrial	1	2.5~5.5	4 mA	/	3.5 ns	3.5 ns	15	5	Push-Pull	SOT363
TP1961	Production	Industrial	1	2.7~5.5	2.4 mA	/	7 ns	7 ns	6	7.5	Push-Pull	SOT23-5
TP1962	Production	Industrial	2	2.7~5.5	2.4 mA	/	7 ns	7 ns	3	7.5	Push-Pull	DFN2X2-8
TPA2031	Preview	Automotive	1	2.7~5.5	350 $\mu$ A	500 $\mu$ A	42 ns	45 ns	6	/	Push-Pull	SOT23-5
TP1941	Production	Industrial	1	1.8~5.5	46 $\mu$ A	58 $\mu$ A	68 ns	72 ns	3	6	Push-Pull	SOT23-5、SOT353
TP1942	Production	Industrial	2	1.8~5.5	46 $\mu$ A	58 $\mu$ A	68 ns	72 ns	3	6	Push-Pull	SOP8
LMV393TP	Production	Industrial	2	1.8~5.5	40 $\mu$ A	70 $\mu$ A	/	120ns	3.5	6	Open Drain	SOP8、MSOP8
LMV331TP	Production	Industrial	1	1.8~5.5	40 $\mu$ A	70 $\mu$ A	/	120ns	3.5	6	Open Drain	SOT23-5、SOT353
TP2021	Production	Industrial	1	1.8~5.5	390 nA	440 nA	13 $\mu$ s	14 $\mu$ s	3	4	Push-Pull	SOT23-6、SOT363
TP2011	Production	Industrial	1	1.6~5.5	200 nA	250 nA	13 $\mu$ s	14 $\mu$ s	3	4	Push-Pull	SOT23-5
TP2012	Production	Industrial	2	1.65~5.5	200 nA	250 nA	13 $\mu$ s	14 $\mu$ s	3	4	Push-Pull	SOP8、MSOP8
LM393A	Production	Industrial Commercial	2	2.5~36	0.15 mA	0.3 mA	/	2 $\mu$ s	6	/	Open Drain	SOP8、TSSOP8、DFN2X2-8
LM339A	Production	Industrial	4	2.5~36	0.15 mA	0.3 mA	/	2 $\mu$ s	6	/	Open Drain	SOP14、TSSOP14
LM331A	Production	Industrial	1	2.5~36	0.15 mA	0.3 mA	/	2 $\mu$ s	6	/	Open Drain	SOT23-5
LM2903A	Production	Industrial Automotive	2	2.5~36	0.15 mA	0.3 mA	/	2 $\mu$ s	6	/	Open Drain	SOP8、MSOP8
LM2901A	Production	Industrial Automotive	4	2.5~36	0.15 mA	0.3 mA	/	2 $\mu$ s	6	/	Open Drain	SOP14

# 接口 INTERFACE

## CAN CAN

Part Number	Status	Rating	Feature	VCC	IEC-61000-4-2 Contact (kV)	Protocol	Max Data Rate (Mbps)	Bus Fault Protection Voltage	Package
TPT1255	Production	Industrial	Silent	4.5-5.5	15	CAN, CAN FD	5	-42V to +42V	SOP8、DFN3X3-8
TPT1256	Production	Industrial	Silent, VIO	4.5-5.5	15	CAN, CAN FD	5	-42V to +42V	SOP8、DFN3X3-8
TPT1051H	Sample	Industrial	Silent	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1051HV	Sample	Industrial	Silent, VIO	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1042	Production	Industrial	Standby	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1042V	Production	Industrial	Standby, VIO	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1043	Production	Industrial	Silent, Standby, Sleep, INH, VIO	4.5-5.5	12	CAN, CAN FD	5	-70V to +70V	SOP14、DFN4.5X3-14
TPT1051Q	Sample	Automotive	Silent	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1051VQ	Sample	Automotive	Silent, VIO	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1042Q	Sample	Automotive	Standby	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1042VQ	Production	Automotive	Standby, VIO	4.5-5.5	15	CAN, CAN FD	5	-70V to +70V	SOP8、DFN3X3-8
TPT1043Q	Sample	Automotive	Silent, Standby, Sleep, INH, VIO	4.5-5.5	12	CAN, CAN FD	5	-70V to +70V	SOP14、DFN4.5X3-14
TPT1145Q	Sample	Automotive	Partial Networking, SPI	4.5-5.5	10	CAN, CAN FD	5	-70V to +70V	SOP14、DFN4.5X3-14
TPT1145NQ	Sample	Automotive	Partial Networking, SPI	4.5-5.5	10	CAN, CAN FD	5	-70V to +70V	SOP14、DFN4.5X3-14

## MLVDS MLVDS

Part Number	Status	Rating	Drivers Per Package	Receivers Per Package	VCC (Min)(V)	VCC (Max)(V)	Data Rate (Max)(kBPS)	ICC (Max)(mA)	ESD HBM (kV)	IEC-61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
TPT9L484	Production	Industrial	0	4	3	3.6	400000	20	8	Yes	-40 to +85	TSSOP16
TPT9H111	Production	Industrial	1	1	3	3.6	100000	24	8	Yes	-40 to +85	SOP8
TPT9H221	Production	Industrial	1	1	3	3.6	200000	24	8	Yes	-40 to +85	SOP8

Contact 3PEAK Sales For More Products Information and Samples



## I2C Level Shift

### I2C Level Shift

Part Number	Status	Rating	Drivers Per Package	Receivers Per Package	VCC (Min)(V)	VCC (Max)(V)	Data Rate (Max)(kBPS)	ICC (Max)(mA)	ESD HBM (kV)	IEC-61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
TPT29306	Production	Industrial	1	1	1.2	5.5	1000	1	4	/	-40 to +85	MSOP8、DFN1.4X1-8、DFN3X4-8
TPT29617A	Production	Industrial	1	1	1.2	5.5	1000	15	7	/	-40 to +125	SOP8、MSOP8
TPT29511B	Production	Industrial	1	1	2.35	5.5	1000	6	7	/	-40 to +125	SOP8、MSOP8
TPT24857	Production	Industrial	7	7	1.1	3.6	208000	7	8	/	-40 to +85	WLCSP

## IO Expander

### IO Expander

Part Number	Status	Rating	Drivers Per Package	Receivers Per Package	VCC (Min)(V)	VCC (Max)(V)	Data Rate (Max)(kBPS)	ICC (Max)(mA)	ESD HBM (kV)	IEC-61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
TPT29516	Production	Industrial	2	16	2.5	5.5	400	0.03	4	/	-40 to +85	TSSOP24、QFN4X4-24
TPT29545	Production	Industrial	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	TSSOP20
TPT29545A	Production	Industrial	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	TSSOP20
TPT29546A	Preview	Industrial	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	TSSOP20
TPT29548	Production	Industrial	1	8	2.5	5.5	400	0.03	3.5	/	-40 to +85	TSSOP24、QFN4X4-24
TPT29548A	Production	Industrial	1	8	2.5	5.5	400	0.03	3.5	/	-40 to +85	TSSOP24、QFN4X4-24
TPT29555	Production	Industrial	2	16	1.65	5.5	400	0.03	4	/	-40 to +85	TSSOP24、QFN4X4-24
TPT29555A	Sample	Industrial	2	16	1.65	5.5	400	0.03	4	/	-40 to +85	TSSOP24、QFN4X4-24
TPT29539Q	Sample	Automotive	2	16	1.65	5.5	400	0.03	4	/	-40 to +85	TSSOP24

## RS485

### RS485

Part Number	Status	Rating	Duplex	Drivers Per Package	Receivers Per Package	VCC (Min)(V)	VCC (Max)(V)	Data Rate (Max)(KBPS)	ICC (Max)(mA)	ESD HBM (kV)	IEC-61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
TPT480	Production	Industrial	Full	1	1	3	5.5	20000	2.5	20	15	-40 to +125	SOP8、DFN3X3-8
TPT481	Production	Industrial	Half	1	1	3	5.5	20000	2.7	18	15	-40 to +125	SOP8、MSOP8、DFN3X3-8
TPT482	Production	Industrial	Full	1	1	3	5.5	20000	2.5	20	15	-40 to +125	SOP14
TPT485E	Production	Industrial	Half	1	1	3	5.5	500	0.8	18	12	-40 to +125	SOP8
TPT485N	Production	Industrial	Half	1	1	3	5.5	500	0.95	18	12	-40 to +125	SOP8
TPT486	Production	Industrial	Full	1	1	3	5.5	500	2.5	20	15	-40 to +125	SOP14
TPT487	Production	Industrial	Half	1	1	3	5.5	500	0.75	18	15	-40 to +125	SOP8、MSOP8、DFN3X3-8
TPT488	Production	Industrial	Full	1	1	3	5.5	500	2.5	20	15	-40 to +125	SOP8、DFN3X3-8
TPT4089	Preview	Industrial	Half	1	1	3	5.5	500 or 20,000	2.5	18	15	-40 to +125	SOP14
TPT4181	Production	Industrial	Half	1	1	3	5.5	500 or 20,000	2.2	15	15	-40 to +125	DFN3X3-10
TPT75176A	Production	Industrial	Half	1	1	3	5.5	5000	5	12	Yes	-40 to +125	SOP8、MSOP8、DFN3X3-8
TPT75176B	Production	Industrial	Half	1	1	3	5.5	10000	5	12	Yes	-40 to +125	SOP8、MSOP8、DFN3X3-8
TPT75176H	Production	Industrial	Half	1	1	3	5.5	10000	2.2	15	15	-40 to +125	SOP8、MSOP8、DFN3X3-8
TP8485E	Production	Industrial	Half	1	1	3	5.5	250	0.93	18	Yes	-40 to +125	SOP8、MSOP8

## RS232

### RS232

Part Number	Status	Rating	Drivers Per Package	Receivers Per Package	VCC (Min)(V)	VCC (Max)(V)	Data Rate (Max)(KBPS)	ICC (Max)(mA)	ESD HBM (kV)	IEC-61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
TPT3232E	Production	Industrial	2	2	3	5.5	250	15	8	12	-40 to +125	SOP16、SSOP16、TSSOP16
TPT3122EH	Production	Industrial	2	2	1.8	5.5	1000	15	8	12	-40 to +125	QFN4X4-24

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# 隔离器件 ISOLATION

## 数字隔离器 Digital Isolator

Part Number	Status	Rating	Number of Channels	Forward/Reverse Channels	Isolation Rating (V rms)	Surge Voltage Capability (Vpk)	CMTI (kV/μs)(Static)	CMTI (kV/μs)(Dynamic)	Max Data Rate (Mbps)	Default Output	Package
TPT7710	Production	Industrial	1	1 / 0	5000	10000	200	150	150	High / Low	SOP8、WSOP8、WSOP16
TPT7720	Production	Industrial	2	2 / 0	5000	10000	200	150	150	High / Low	SOP8、WSOP8、WSOP16
TPT7721	Production	Industrial	2	2 / 1	5000	10000	200	150	150	High / Low	SOP8、WSOP8、WSOP16
TPT7722	Preview	Industrial	2	2 / 1	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7730	Production	Industrial	3	3 / 0	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7731	Production	Industrial	3	3 / 1	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7740	Production	Industrial	4	4 / 0	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7741	Production	Industrial	4	4 / 1	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7742	Production	Industrial	4	4 / 2	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7760	Production	Industrial	6	6 / 0	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7761	Production	Industrial	6	6 / 1	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7762	Production	Industrial	6	6 / 2	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7763	Production	Industrial	6	6 / 3	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7820	Preview	Industrial	2	2 / 0	5700	12800	200	150	150	High / Low	WSOP8、WSOP16、WWSOP16
TPT7821	Preview	Industrial	2	2 / 1	5700	12800	200	150	150	High / Low	WSOP8、WSOP16、WWSOP16
TPT7822	Preview	Industrial	2	2 / 0	5700	12800	200	150	150	High / Low	WSOP8、WSOP16、WWSOP16
TPT7840	Preview	Industrial	4	4 / 0	5700	12800	200	150	150	High / Low	WSOP16、WWSOP16
TPT7841	Preview	Industrial	4	4 / 1	5700	12800	200	150	150	High / Low	WSOP16、WWSOP16
TPT7842	Preview	Industrial	4	4 / 2	5700	12800	200	150	150	High / Low	WSOP16、WWSOP16
TPT7720Q	Sample	Automotive	2	2 / 0	5000	10000	200	150	150	High / Low	SOP8、WSOP8、WSOP16
TPT7721Q	Sample	Automotive	2	2 / 1	5000	10000	200	150	150	High / Low	SOP8、WSOP8、WSOP16
TPT7722Q	Preview	Automotive	2	2 / 1	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7740Q	Sample	Automotive	4	4 / 0	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7741Q	Sample	Automotive	4	4 / 1	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7742Q	Sample	Automotive	4	4 / 2	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7760Q	Preview	Automotive	6	6 / 0	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7761Q	Preview	Automotive	6	6 / 1	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7762Q	Preview	Automotive	6	6 / 2	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16
TPT7763Q	Preview	Automotive	6	6 / 3	5000	10000	200	150	150	High / Low	SOP16、QSOP16、WSOP16

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## 隔离 CAN ISO-CAN

Part Number	Status	Rating	Isolation Rating (V rms)	Surge Voltage Capability (Vpk)	CMTI (kV/μs)(Static)	CMTI (kV/μs)(Dynamic)	Max Data Rate (Mbps)	Bus Fault Protection Voltage	Package
TPT71050	Production	Industrial	5000	10000	200	150	5	42V	WSOP8、WSOP16
TPT71044	Production	Industrial	5000	10000	200	150	5	42V	WSOP8、WSOP16
TPT71042	Preview	Industrial	5000	10000	200	150	5	70V	WSOP8、WSOP16

## 隔离 RS485 ISO-RS485

Part Number	Status	Rating	Isolation Rating (V rms)	Surge Voltage Capability (Vpk)	CMTI (kV/μs)(Static)	CMTI (kV/μs)(Dynamic)	Max Data Rate (Mbps)	Mode	Package
TPT7487	Production	Industrial	5000	10000	200	150	0.5	Half / Full Duplex	WSOP8、WSOP16
TPT7488	Production	Industrial	5000	10000	200	150	0.5	Half / Full Duplex	WSOP8、WSOP16
TPT7481	Production	Industrial	5000	10000	200	150	0.5	Half / Full Duplex	WSOP8、WSOP16
TPT7482	Production	Industrial	5000	10000	200	150	0.5	Half / Full Duplex	WSOP8、WSOP16

## 隔离 I2C ISO-I2C

Part Number	Status	Rating	Isolation Rating (V rms)	Surge Voltage Capability (Vpk)	CMTI (kV/μs)(Static)	CMTI (kV/μs)(Dynamic)	Max Data Rate (Mbps)	Clock Direction	Package
TPT72616	Sample	Industrial	3750	10000	200	150	1	Bidirection	SOP8
TPT72617	Sample	Industrial	3750	10000	200	150	1	Single Direction	SOP8

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## 隔离放大器 ISO-Amplifier

Part Number	Status	Rating	Gain	Input Voltage Range	Insulation Rating (Vrms)	Output	Package
TPA8000-SOAR	Preview	Industrial	8	250mV	5000	Differential	WSOP8、SMP8
TPA8001-SOAR	Preview	Industrial	8.2	250mV	5000	Differential	WSOP8
TPA8002-SOAR	Preview	Industrial	41	50mV	5000	Differential	WSOP8
TPA8003-SOAR	Preview	Industrial	1	2V	5000	Differential	WSOP8
TPA8023-SO1R	Preview	Industrial	1	2V	3750	Single End	SOP8

## 隔离调制器 ISO-Modulator

Part Number	Status	Rating	Clock Source	Input voltage range	Insulation Rating (Vrms)	Output	Package
TPA8101-SOAR	Preview	Industrial	External	250mV	5000	Differential	WSOP8
TPA8103-SOAR	Preview	Industrial	Internal	250mV	5000	Differential	WSOP8

# 数据转换器

## DATA CONVERTER

### 高精度数模转换器 Precision DAC

Part Number	Status	Rating	Resolution	VDD (V)	CH	INL (LSB, Max)	DNL (LSB, Max)	Offset Error (mV, Max)	IDD (μA/CH, Max)(μA)	Gain Error (% of FSR, Max)	Voltage Output Range (V)	D to A Glitch Impulse (nV-sec)	Temperature Range (°C)	Package
TPC2161	Production	Industrial	16	2.7~5.5	1	±1	±1	±0.17	150	±0.011	0~Vref	10	-40 to +105	SOP14
TPC2160	Production	Industrial	16	2.7~5.5	1	±1	±1	±0.17	150	±0.011	0~Vref	10	-40 to +105	SOP8
TPC112S1	Production	Industrial	12	2.7~5.5	1	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	MSOP8
TPC114S1	Production	Industrial	14	2.7~5.5	1	±8	±1	±30	80	±0.3	0~Vref	2	-40 to +125	MSOP8
TPC116S1	Production	Industrial	16	2.7~5.5	1	±16	±1	±30	80	±0.3	0~Vref	2	-40 to +125	MSOP8
TPC112S4	Production	Industrial	12	2.7~5.5	4	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	TSSOP16
TPC116S4	Production	Industrial	16	2.7~5.5	4	±16	±1	±30	80	±0.3	0~Vref	2	-40 to +125	TSSOP16
TPC112S8	Production	Industrial	12	2.7~5.5	8	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	TSSOP16、QFN4X4-16
TPC116S8	Production	Industrial	16	2.7~5.5	8	±16	±1	±30	80	±0.3	0~Vref	2	-40 to +125	TSSOP16、QFN4X4-16
TPC112S8U	Production	Industrial	12	2.7~5.5	8	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	TSSOP16、QFN4X4-16

### 高精度模数转换器 Precision ADC

Part Number	Status	Rating	Resolution	VDD (V)	CH	Speed (MSPS)	INL (LSB, Max)	DNL (LSB, Max)	Offset Error (LSB, Max)	Gain Error (LSB)	Voltage Input Range (V)	IDD (mA)	Temperature Range (°C)	Package
TPAFE516	Production	Industrial	16	4.75~5.25	8	0.35	±2	±1	±15	±15	±10, ±5	52	-40 to +125	LQFP10X10-64
TPC5120	Production	Industrial	12	2.7~5.5	16	1	±1.5	(-1, 1.5)	±4	±2	0~2.5, 0~5	1.65	-40 to +125	TSSOP38、QFN5X5-32
TPC5121	Production	Industrial	12	2.7~5.5	8	1	±1.5	(-1, 1.5)	±4	±3	0~2.5, 0~5	1.65	-40 to +125	QFN4×4-24

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### 高速数模转换器 High-Speed DAC

Part Number	Status	Rating	Resolution	Update Rate (MSPS)	CH	Datum	INL(LSB)	DNL (LSB)	SFDR (dB)	VDD (V)	Power (mW)	Package
3PD9708E	Production	Industrial	8	125	1	Internal, 1.10V	0.25	0.25	70	2.7-5.5	175	TSSOP28
3PD5651E	Production	Industrial	10	125	1	Internal, 1.10V	0.5	0.25	79	2.7-5.5	175	TSSOP28

### 高速模数转换器 High-Speed ADC

Part Number	Status	Rating	Resolution	Update Rate (MSPS)	CH	Interface	VIN (V)	Datum	DNL (LSB)	SINAD (dB)	VDD (V)	Power (mW)	Package
3PA9280	Production	Industrial	8	32	1	Parallel	0~2	Internal	0.2	49	2.7-5.5	85	SSOP28
3PA1030	Production	Industrial	10	50	1	Parallel	0~2	Internal	0.3	56.5	2.7-5.5	84	TSSOP28

### 多通道可配置模数 / 数模转换器 Multi-channel Configurable ADC/DAC Converter

Part Number	Status	Rating	ADC Channel	ADC Resolution	DAC Channel	DAC Resolution	GPIO Channel	VREF	Temperature Sensor	Interface	VDD (V)	VDDIO (V)	Package
TPAFE0808	Production	Industrial	8	12bit	8	12bit	8	Internal/External	Internal	SPI	2.7-5.5	1.8-5.5	WLCSP QFN3X3-16

### 数字式电流 / 功率监测器 Current/Power Monitor

Part Number	Status	Rating	Common Mode Voltage (Max) (V)	Input Offset (+/-) (Max)( $\mu$ V)	GAIN (V/V)	Gain Error (%)	CMRR (Min)(dB)	Supply Voltage (Max)(V)	Supply Voltage (Min)(V)	Iq (Typ)(mA)	Digital Interface	Operating Temperature Range (°C)	Package
TPA620	Production	Industrial	0~36	30	1	0.4	120	5.5	2.7	1.1	I2C SMBUS	-40 to +125	MSOP10
TPA626	Production	Industrial	0~36	50	0.123, 0.25, 0.5, 1	0.5	110	5.5	2.7	1.1	I2C SMBUS	-40 to +125	MSOP10

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# 线性稳压电源

## VOLTAGE LINEAR REGULATOR

### LVLDO LVLDO

Part Number	Status	Rating	Input Voltage (V)	Output Voltage (V)	Accuracy (max)	Maximum Output Current (mA)	Iq (mA)	PSRR (dB)	Noise (uVRMS)	Dropout (mV)	Temperature Range (°C)	Package
TPL5031	Production	Industrial	1.5-5.5	Adjustable (0.5-3.5)	±2%	300	0.055	70	178	250	-40 to +125	SOT23-5
TPL51200	Production	Industrial	2.375-5.5	Adjustable (0.5-3.5)	±25mV	±3000	0.8	/	/	/	-40 to +125	DFN3X3-10
TPL51200-S	Production	Industrial	2.375-5.5	Adjustable (0.5-3.5)	±25mV	±3000	0.8	/	/	/	-40 to +125	DFN3X3-10
TPL51206	Production	Industrial	3-5.5	Adjustable (0.5-3.5)	±40mV	±2000	0.89	/	/	/	-40 to +125	DFN2X2-10
TPL6305	Preview	Industrial	1.4-6.5	Adjustable (0.5-5.2)	±2%	3000	/	70	4.5	150	-40 to +125	ESOP8
TPL710	Production	Industrial	2.4-6	Fixed (1.0, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6)	±3%	200	0.0014	54	90	170	-40 to +125	SOT23-3, SOT23-5, DFN1X1-4
TPL720	Production	Industrial	2.4-6	Fixed (1.0, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6)	±3%	400	0.0014	54	90	350	-40 to +125	SOT23-3, STO23-5, SOT89-3
TPL730	Production	Industrial	2.4-5.5	Adjustable (0.8-5), Fixed (1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3)	±2%	300	0.049	60	40	200	-40 to +125	SOT23-5, SOT353, DFN1X1-4
TPL740	Production	Industrial	2.4-5.5	Adjustable (0.8-5), Fixed (1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3)	±2%	500	0.049	60	40	200	-40 to +125	SOT23-5, SOT23-6, SOT89-3
TPL9032	Production	Industrial	1.75-5.5	Fixed (0.9, 1.0, 1.1, 1.2, 1.3, 1.5, 1.6, 1.8, 1.9, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 4.0, 4.5, 5.0)	±2%	300	0.12	81.9	8.6	80	-40 to +125	SOT23-5, WLCSOP, DFN1X1-4
TPL9052	Production	Industrial	1.75-5.5	Fixed (0.9, 1.0, 1.1, 1.2, 1.3, 1.5, 1.6, 1.8, 1.9, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 4.0, 4.5, 5.0)	±2%	500	0.12	82	8.6	150	-40 to +125	SOT23-5, DFN1X1-4
TPL9052-S	Preview	Industrial	1.75-5.5	Fixed (1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6, 4.5, 5.0)	±2%	500	0.12	82	8.6	150	-40 to +125	SOT23-5
TPL9053	Production	Industrial	1.7-5.5	Adjustable (0.6-5.3)	±1.5%	500	0.13	89	5.7	150	-40 to +125	DFN2X2-8
TPL910	Production	Industrial	2.2-6.5	Adjustable (0.8-5.2)	±3%	1000	1.5	65	24	500	-40 to +125	DFN3X3-8
TPL910Q	Production	Automotive	2.2-5.5	Adjustable (0.8-5.2)	±3%	1000	0.13	78	4.9	500	-40 to +150	DFN3X3-8
TPL910A	Preview	Industrial	2.2-6.5	Adjustable (0.8-5.2)	±3%	1000	0.13	80	4.5	500	-40 to +125	DFN3X3-8
TPL910A-S	Production	Industrial	2.2-6.5	Adjustable (0.8-5.2)	±3%	1000	0.13	80	4.5	500	-40 to +125	DFN3X3-8
TPL920	Production	Industrial	1.1-6.5	Fixed (0.8-3.95), Adjustable (0.8-5.2)	±1%	2000	12	70	6	120	-40 to +125	QFN5X5-20
TPL930	Production	Industrial	1.1-6.5	Fixed (0.8-3.95), Adjustable (0.8-5.2)	±1%	3000	12	70	6	145	-40 to +125	QFN3.5X3.5-20
TPL9305-S	Preview	Industrial	1.1-6.5	Fixed (0.5-3.65), Adjustable (0.5-5.2)	±1%	3000	12	70	6	145	-40 to +125	QFN3.5X3.5-20
TPL9308-S	Preview	Industrial	1.1-6.5	Fixed (0.5-3.65), Adjustable (0.5-5.2)	±1%	3000	12	70	6	120	-40 to +125	DFN3.5X3.5-10
TPL9208-S	Production	Industrial	1.1-6.5	Fixed (0.5-3.65), Adjustable (0.5-5.2)	±1%	2000	12	70	6	120	-40 to +125	DFN2.5X2.5-10, QFN5X5-20

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## HVLDO HVLD0

Part Number	Status	Rating	Input Voltage (V)	Output Voltage (V)	Accuracy (max)	Maximum Output Current (mA)	Iq (mA)	PSRR (dB)	Noise (uVRMS)	Dropout (mV)	Temperature Range (°C)	Package
<b>TPL8031Q</b>	Preview	Automotive	3~42	Fixed (1.8, 2.5, 3.3, 5.0)	±1.5%	300	0.002	70	80	400	-40 to +150	EMSOP8, DFN3X3-8, SOT223-3
<b>TPL8034Q</b>	Preview	Automotive	3~42	Fixed (3.3, 5.0)	±1.5%	300	0.002	70	80	400	-40 to +150	EMSOP8
<b>TPL8032</b>	Production	Industrial	2.5~20	Adjustable (1.22~18), Fixed (1.8, 3.3, 5.0)	±2%	300	0.098	79	5.68	350	-40 to +125	SOT23-5
<b>TPL8032-S</b>	Production	Industrial	2.5~20	Adjustable (1.22~18), Fixed (1.8, 3.3, 5.0)	±2%	300	0.098	79	5.68	350	-40 to +125	SOT23-5
<b>TPL8032Q</b>	Preview	Automotive	2.5~20	Adjustable (1.22~18)	±2%	300	0.098	80	5.68	450	-40 to +150	ESOP8
<b>TPL8033</b>	Production	Industrial	2~20	Adjustable (1.2~15)	±1%	200	2.2	110	1	250	-40 to +150	DFN3X3-10, EMSOP10
<b>TPL810</b>	Production	Industrial	3.6~24	Adjustable (1.2~15), Fixed (2.8, 3.0, 3.3, 5.0)	±2%	180	0.002	73	70	800	-40 to +125	SOT23-3, SOT23-5, SOT89-3
<b>TPL820</b>	Production	Industrial	3.6~42	Fixed (3.0, 3.3, 5.0)	±2%	180	0.002	73	70	800	-40 to +125	SOT23-3, SOT23-5, SOT89-3, SOT223-3
<b>TPL8151</b>	Production	Industrial	2.75~29	Adjustable (1.25~25)	±2%	1500	/	79	30	1200	-40 to +125	DFN4X4-8
<b>TPL8151-S</b>	Production	Industrial	2.75~29	Adjustable (1.25~25)	±2%	1500	/	79	30	1200	-40 to +125	DFN4X4-8
<b>TPL8151Q</b>	Preview	Automotive	2.75~29	Adjustable (1.25~25)	±2%	1500	/	79	30	1200	-40 to +150	ESOP8
<b>TPL8651Q</b>	Preview	Automotive	3.5~42	Adjustable (2~42)	±5mV	150	0.005	65	25	150	-40 to +150	ESOP8
<b>TPL8652Q</b>	Preview	Automotive	3.5~42	Adjustable (2~42)	±5mV	250	0.005	65	25	250	-40 to +150	ESOP8

# 电压基准

## VOLTAGE REFERENCE

### 并联型电压基准 Shunt Voltage Reference

Part Number	Status	Rating	Output Voltage	Isink (min)(mA)	Isink (max)(mA)	Accuracy	TC (ppm/°C)	10 to 10kHz Voltage Noise (μVrms)	Output Capacitor Load (μF)	Package
TPR6040	Production	Industrial	Fixed(2.048, 2.5, 3.0, 4.096, 5.0, 8.192, 10.0)	0.15	15	0.20%	50	90	Any Load	SOT23-G
TPR6040-S	Production	Industrial	Fixed(2.048, 2.5, 3.0, 4.096, 5.0, 8.192, 10.0)	0.15	15	0.10%	25	90	Any Load	SOT23-G
TPR431	Production	Industrial	Adjustable(VREF to 36V)	1	80	0.50%	50	/	/	SOT23-G
TPR431-S	Production	Industrial	Adjustable(VREF to 36V)	1	80	0.50%	50	/	/	SOT23-G
TPR432	Production	Industrial	Adjustable(VREF to 36V)	1	80	0.50%	50	/	/	SOT23-G

### 串联型电压基准 Series Voltage Reference

Part Number	Status	Rating	Output Voltage	Vin (min)(V)	Vin (max)(V)	Iq (max)(μA)	Accuracy (max)	TC (-40 to 85°C) (ppm/°C)	TC (-40 to 125°C) (ppm/°C)	0.1 to 10Hz Output Voltage Noise (μVpp)	Line Regulation (max)(ppm/V)	Load Regulation (max)(ppm/mA)	Output Capacitor Load (μF)	Package
TPR35	Production	Industrial	Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096)	max(Ver+0.05, 2.1)	5.5	165	0.20%	30	50	50	50	20	0.1 to 10	SOT23-G
TPR33	Production	Industrial	Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096)	max(Ver+0.05, 2.1)	5.5	165	0.15%	20	30	50	50	20	0.1 to 10	SOT23-G
TPR33-S	Production	Industrial	Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096)	max(Ver+0.05, 2.1)	5.5	165	0.15%	20	30	50	50	20	0.1 to 10	QFN1.5X1.5-8
TPR50	Preview	Industrial	Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096, 4.5, 5.0)	max(Ver+0.2, 3)	16	1000	0.05%	3	5	3	5	2.5	0.22 to 100	SOP8

# 监控电源 SUPERVISORS

## 电源监控和复位芯片

### VOLTAGE SUPERVISORS AND RESET ICS

Part Number	Status	Rating	Power Consumption (μA)	Power Supervisor	Manual Reset Input	Watchdog	Power Fail Input (PFI)	Reset Timeout Period (mS)	Watchdog Timeout Period (S)	Reset Output Polarity	Reset Output Type	Temperature Range (°C)	Package
TPV803	Production	Industrial	2.2	Yes	/	/	/	200	/	Low Active	Open Drain	-40 to +125	SOT23G-3
TPV809	Production	Industrial	2.2	Yes	/	/	/	200	/	Low Active	Open Drain	-40 to +125	SOT23-3、SOT23G-3、SOT363
TPV810	Production	Industrial	2.2	Yes	/	/	/	200	/	High Active	Push-Pull	-40 to +125	SOT23G-3
TPV811	Production	Industrial	2.2	Yes	Yes	/	/	200	/	Low Active	Push-Pull	-40 to +125	SOT143
TPV821	Production	Industrial	2.2	Yes	Yes	/	/	200	/	Low Active	Open Drain	-40 to +125	SOT143
TPV8308	Preview	Industrial	1.5	Yes	Yes	/	/	Programmable	/	Low Active	Open Drain	-40 to +125	SOT23-6
TPV8348	Preview	Industrial	1.5	Yes	Yes	/	/	Programmable	/	High Active	Push-Pull	-40 to +125	DFN1.5X1-6
TPV8368Q	Preview	Industrial	6.2	Yes	Yes	/	/	Programmable	/	High Active	Push-Pull	-40 to +125	SOT23-6

## 电源时序控制

### POWER SEQUENCER

Part Number	Status	Rating	VCC (V)	Timing Control	Power-up Sequence Control	Power-down Sequence Control	Open-Drain Output	Output Voltage (V)	Channels	Junction Temperature Range (°C)	Package
TPK1032	Production	Industrial	2.7 ~ 5.5	11ms, 30ms, 60ms, 120ms, 2ms, 16ms	FLAG1->FLAG2->FLAG3	FLAG3->FLAG2->FLAG1	Yes	0 ~ VCC	3	-40 to +125	SOT23-3
TPK1031	Production	Industrial	2.7 ~ 5.5	Adjustable	FLAG1->FLAG2->FLAG3	FLAG3->FLAG2->FLAG1	Yes	0 ~ VCC	3	-40 to +125	MSOP8

# 驱动器 DRIVERS

## 步进马达驱动 Stepper Motor Drivers

Part Number	Status	Rating	VIN (V)	# of Channel	Max Output Current (A)	Package
TPM0596	Production	Industrial	5-50	8	0.5	TSSOP16
TPM2803	Production	Industrial	5-50	8	0.5	SOP18
TPM2003	Production	Industrial	5-50	7	0.5	SOP16、TSSOP16
TPM2001	Production	Industrial	5-50	4	1	MSOP10

## 直流马达驱动 DC Motor Drivers

Part Number	Status	Rating	VIN (V)	Rdson (H+L)(Ω)	Max Output Current (A)	# of Half Bridges	Temperature Range (°C)	Package
TPM8870	Preview	Industrial	4.5-36	0.7	3.5	2	-40 to +125	ESOP8
TPM8876	Preview	Industrial	4.5-36	0.7	3.5	2	-40 to +125	ETSSOP16、QFN3X3-16
TPM8837C	Production	Industrial	2.5-17	0.85	1	2	-40 to +125	DFN2X2-8
TPM16050	Production	Industrial	3-17	0.85	0.5	2	-40 to +125	SOT23-6

## 非隔离栅极驱动 Non-isolated Gate Drivers

Part Number	Status	Rating	VIN (V)	# of Channel	Max Output Current (A)	Input Voltage Range (V)	Junction Temperature Range (°C)	Rise / fall time (ns)	Propagation Delay (ns)	Delay Matching (ns)	Package
TPM2015Q	Preview	Automotive	4.75~5.25	1	7	0~5	-40 to +150	0.45/0.45	2	n/a	QFN2X2-10
TPM2025	Production	Industrial	4.75~5.25	2	7	0~5	-40 to +150	0.45/0.45	2	0.05	QFN2X2-10
TPM2025Q	Preview	Automotive	4.75~5.25	2	7	0~5	-40 to +150	0.45/0.45	2	0.05	QFN2X2-10
TPM27523	Production	Industrial	4.5~25	2	5	-5~20	-40 to +150	7/6	14	< 1	SOP8、EMSOP8、DFN2X2-8、DFN3X3-8
TPM27524	Production	Industrial	4.5~25	2	5	-5~20	-40 to +150	7/6	14	< 1	SOP8、EMSOP8、DFN2X2-8、DFN3X3-8
TPM27525	Production	Industrial	4.5~25	2	5	-5~20	-40 to +150	7/6	14	< 1	SOP8、EMSOP8、DFN2X2-8、DFN3X3-8
TPM27526	Production	Industrial	4.5~25	2	5	-5~20	-40 to +150	7/6	14	< 1	SOP8、EMSOP8、DFN2X2-8、DFN3X3-8
TPM27524Q	Preview	Automotive	4.5~25	2	5	-5~20	-40 to +150	7/6	14	< 1	SOP8、EMSOP8、DFN2X2-8
TPM27517	Production	Industrial	4.5~25	1	5	-5~20	-40 to +150	7/6	14	n/a	SOT23-5
TPM44273	Production	Industrial	4.5~25	1	5	-5~20	-40 to +150	7/6	14	n/a	SOT23-5
TPM27217	Preview	Industrial	4.5~23	1	2	-5~20	-40 to +150	8/9	18	n/a	SOT23-5
TPM27224	Preview	Industrial	4.5~23	2	2	-5~20	-40 to +150	8/9	18	1	SOP8、DFN2X2-8
TPM27201	Preview	Industrial	120	HS+LS	2.5/3.5	-5~20	-40 to +150	12/10	16	1	DFN4X4-8、ESOP8、SOP8
TPM27221	Preview	Industrial	120	HS+LS	2.5/3.5	-5~20	-40 to +150	12/10	16	1	DFN4X4-10、DFN4X4-8、ESOP8、SOP8
TPM27282	Preview	Industrial	120	HS+LS	2.5/3.5	-5~20	-40 to +150	12/10	16	1	DFN3X3-10、SOP8

## 隔离栅极驱动 Isolated Gate Drivers

Part Number	Status	Rating	Feature	Isolation rating (Vrms)	# of Channel	Peak Output Current (A)	Junction Temperature Range (°C)	Output Voltage Max (V)	Output Voltage Min (V)	Propagation Delay (ns)	Package
TPM23513	Preview	Industrial	Opto-compatible input	5700	1	5/5	-40 to +150	40	14	70	WSOP6
TPM23514M	Preview	Industrial	Opto-compatible input, Miller Clamp	5700	1	5/5	-40 to +150	40	14	70	WSOP8
TPM23514S	Preview	Industrial	Opto-compatible input, Split Output	5700	1	5/5	-40 to +150	40	14	70	WSOP8
TPM23514D	Preview	Industrial	Opto-compatible input, Desat Protection	5700	1	5/5	-40 to +150	40	14	70	WSOP8
TPM23514V	Preview	Industrial	Opto-compatible input	5700	1	5/5	-40 to +150	40	14	70	WSOP8

Contact 3PEAK Sales For More Products Information and Samples

# DCDC

## DCDC

### 宽压降压转换器 Wide-Vin Buck Converter

Part Number	Status	Rating	VIN (V)	Output (V)	Max Output Current (A)	Control Mode	Temperature Range (°C)	Package
TPP00061	Preview	Industrial	4.5~100	1.225~100	1	Constant On-time	-40 to +125	ESOP8、DFN3X3-8、DFN4X4-8
TPP60308	Preview	Industrial	4.5~60	0.8~60	3.5	Peak Current Mode	-40 to +125	ESOP8
TPP60508	Production	Industrial	4.5~60	0.8~60	5	Peak Current Mode	-40 to +125	DFN4X4-10
TPP362080	Production	Industrial	4.5~36	0.6~36	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP362081	Production	Industrial	4.5~36	0.6~36	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP362082	Production	Industrial	4.5~36	0.6~36	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP362083	Production	Industrial	4.5~36	0.6~36	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP363080	Production	Industrial	4.5~36	0.6~36	3	Peak Current Mode	-40 to +125	TSOT23-6
TPP363081	Preview	Industrial	4.5~36	0.6~36	3	Peak Current Mode	-40 to +125	TSOT23-6
TPP363082	Production	Industrial	4.5~36	0.6~36	3	Peak Current Mode	-40 to +125	TSOT23-6
TPP363083	Preview	Industrial	4.5~36	0.6~36	3	Peak Current Mode	-40 to +125	TSOT23-6
TPP302080	Production	Industrial	4.5~30	0.6~30	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP302081	Preview	Industrial	4.5~30	0.6~30	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP302082	Production	Industrial	4.5~30	0.6~30	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP302083	Preview	Industrial	4.5~30	0.6~30	2	Peak Current Mode	-40 to +125	TSOT23-6
TPP361080	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6
TPP361081	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6
TPP361082	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6
TPP361083	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6
TPP361060	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6
TPP361061	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6
TPP361062	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6
TPP361063	Preview	Industrial	4.5~36	0.6~36	1	Peak Current Mode	-40 to +125	TSOT23-6

Contact 3PEAK Sales For More Products Information and Samples

## 中压降压转换器 Mid-Voltage Buck Converter

Part Number	Status	Rating	VIN (V)	Output (V)	Max Output Current (A)	Control Mode	Temperature Range (°C)	Package
TPP2020	Production	Industrial	4.5~17	0.8~17	2	Constant On-time	-40 to +125	SOT23-6
TPP20608x	Production	Industrial	4.5~17	0.6~17	6	Peak Current Mode	-40 to +125	QFN3.5X3.5-14

## 低压降压转换器 Low-Voltage Buck Converter

Part Number	Status	Rating	VIN (V)	Output (V)	Max Output Current (A)	Control Mode	Temperature Range (°C)	Package
TPP05608	Preview	Industrial	2.8~6	0.6~6	6	Peak Current Mode	-40 to +125	QFN3X3-16

## 升压转换器 Boost Converter

Part Number	Status	Rating	Feature	VIN (V)	Output (V)	Max Output Current (A)	Temperature Range (°C)	Package
TPQ05100	Production	Industrial	Adjustable output voltage. Ultra low quiescent current 20nA	0.9~5.5	1.8~5.5	0.6	-40 to +125	DFN2X2-6, WLCSP
TPQ051007	Preview	Industrial	5V fixed output. Ultra low quiescent current 20nA	0.9~5.5	1.8~5.5	0.6	-40 to +125	DFN2X2-6, WLCSP
TPQ051006	Preview	Industrial	4.5V fixed output. Ultra low quiescent current 20nA	0.9~5.5	1.8~5.5	0.6	-40 to +125	DFN2X2-6, WLCSP
TPQ051005	Preview	Industrial	3.6V fixed output. Ultra low quiescent current 20nA	0.9~5.5	1.8~5.5	0.6	-40 to +125	DFN2X2-6, WLCSP
TPQ051004	Preview	Industrial	3.3V fixed output. Ultra low quiescent current 20nA	0.9~5.5	1.8~5.5	0.6	-40 to +125	DFN2X2-6, WLCSP
TPQ051003	Preview	Industrial	3V fixed output. Ultra low quiescent current 20nA	0.9~5.5	1.8~5.5	0.6	-40 to +125	DFN2X2-6, WLCSP
TPQ051002	Preview	Industrial	2.5V fixed output. Ultra low quiescent current 20nA	0.9~5.5	1.8~5.5	0.6	-40 to +125	DFN2X2-6, WLCSP
TPQ80302	Preview	Industrial	Integrated load disconnect	3.1 ~ 60	VIN ~ 80	3.5	-40 to +125	QFN3X3-16

# 电池管理

## BATTERY MANAGEMENT

### 线性充电芯片 Linear Charger

Part Number	Status	Rating	VIN MAX. (V)	Floating Voltage (V)	Accuracy	Max Output Current (mA)	IBAT (μA.)	OVP (V)	Temperature Range (°C)	Package
TPB4056A20	Production	Industrial	26.5	4.2	1%	1000	4	6.8	-40 to +85	ESOP8、DFN2×2-8
TPB4056A2X	Preview	Industrial	26.5	4.2	1%	1000	4	10.5	-40 to +85	ESOP8、DFN2×2-8
TPB4056A3X	Preview	Industrial	26.5	4.35	1%	1000	4	10.5	-40 to +85	ESOP8、DFN2×2-8
TPB4056B2X	Preview	Industrial	26.5	4.2	1%	1000	4	10.5	-40 to +85	ESOP8、EMSOP8

### 电池保护 Battery Protector

Part Number	Status	Rating	VIN (V)	OV Threshold (V)	UV Threshold (V)	Charge Overcurrent (mV)	Discharge Overcurrent 1 (mV)	Discharge Overcurrent 2 (mV)	Short-circuit Overcurrent (ns)	0V Charge	Package
TPB71703VI	Preview	Industrial	6	4.495	2.350	-21.0	21.0	30.0	80.0	No	DFN1.4X1.8-6
TPB71703VO	Preview	Industrial	6	4.550	2.100	-29.0	21.0	30.0	80.0	No	DFN1.4X1.8-6
TPB71703VP	Preview	Industrial	6	4.575	2.350	-24.0	10.5	16.5	42.0	No	DFN1.4X1.8-6
TPB71703VT	Preview	Industrial	6	4.625	2.100	-27.0	10.5	16.5	42.0	No	DFN1.4X1.8-6
TPB7462GGA	Production	Industrial	28	4.500	2.30	/	/	/	/	/	DFN2X2-8





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