

模拟产品选型
ANALOG PRODUCTS
SELECTION



关于思瑞浦 ABOUT 3PEAK

思瑞浦微电子科技（苏州）股份有限公司（英文：3PEAK INCORPORATED，股票代码：688536）成立于 2012 年，2020 年 9 月 21 日在上海科创板上市。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

纳安级功耗、微功耗运算放大器

Nano-Power, Micro-Power OP-AMPS

Part Number	CH	VDD (V)	GBWP	IQ (Typ.)(per CH)	IQ (Max.)(per CH)	IQ (off)(关断)	VOS (max) (mV)	Slew Rate	VOS TC (μV/° C)	eN @1kHz (nV/√ Hz)	IBIAS (pA)	Rail-Rail	Package
TP2111	1	1.8~6.0	10 kHz	300 nA	500 nA	N/A	(mV)	6 mV/μs	0.4	265	1	In/Out	5-Pin SC70、5-Pin SOT23
TP2112	2	1.8~6.0	10 kHz	300 nA	500 nA	N/A	1.5	6 mV/μs	0.4	265	1	In/Out	8-Pin MSOP、8-Pin SOIC
TP2121	1	1.8~6.0	18 kHz	600 nA	800 nA	N/A	1.5	10 mV/μs	0.5	170	1	In/Out	5-Pin SC70、5-Pin SOT23
TP2122	2	1.8~6.0	18 kHz	600 nA	800 nA	N/A	1.5	10 mV/μs	0.5	170	1	In/Out	8-Pin MSOP、8-Pin SOIC
TP2124	4	1.8~6.0	18 kHz	600 nA	800 nA	N/A	1.5	10 mV/μs	0.5	170	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP1511	1	2.1~6.0	150 kHz	4 uA	5.6 uA	N/A	3	0.09 V/μs	0.6	95	1	In/Out	5-Pin SC70、5-Pin SOT23
TP1512	2	2.1~6.0	150 kHz	4 uA	5.6 uA	N/A	3	0.09 V/μs	0.6	95	1	In/Out	8-Pin SOIC、8-Pin MSOP
TP1514	4	2.1~6.0	150 kHz	4 uA	5.6 uA	N/A	3	0.09 V/μs	0.6	95	1	In/Out	14-Pin SOIC、14-Pin TSSOP
LMV321B	1	2.5~5.5	1 MHz	80 uA	130 uA	N/A	3.5	0.7 V/μs	2	30	1	In/Out	5-Pin SC70、5-Pin SOT23
LMV358B	2	2.5~5.5	1 MHz	80 uA	130 uA	N/A	3.5	0.7 V/μs	2	30	1	In/Out	8-Pin SOIC、8-Pin MSOP
LMV324B	4	2.5~5.5	1 MHz	80 uA	130 uA	N/A	3.5	0.7 V/μs	2	30	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP321	1	2.1~6.0	1 MHz	45 uA	87 uA	N/A	5	1.0 V/μs	2	45	10	In/Out	5-Pin SC70、5-Pin SOT23
TP358	2	2.1~6.0	1 MHz	45 uA	87 uA	N/A	5	1.0 V/μs	2	45	10	In/Out	8-Pin SOIC、8-Pin MSOP
TP324	4	2.1~6.0	1 MHz	45 uA	87 uA	N/A	5	1.0 V/μs	2	45	10	In/Out	14-Pin SOIC、14-Pin TSSOP
LMV321TP	1	2.1~6.0	1.27 MHz	40 uA	51 uA	N/A	3.5	0.9 V/μs	0.6	39	1	In/Out	5-Pin SC70、5-Pin SOT23
LMV358TP	2	2.1~6.0	1.27 MHz	40 uA	51 uA	N/A	3.5	0.9 V/μs	0.6	39	1	In/Out	8-Pin SOIC、8-Pin MSOP
LMV324TP	4	2.1~6.0	1.27 MHz	40 uA	51 uA	N/A	3.5	0.9 V/μs	0.6	39	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP6001	1	2.5~6.0	1.3 MHz	80 uA	130 uA	N/A	3	0.7 V/μs	1	27	1	In/Out	5-Pin SOT23、5-Pin SC70
TP6002	2	2.5~6.0	1.3 MHz	80 uA	130 uA	N/A	3	0.7 V/μs	1	27	1	In/Out	8-Pin SOIC、8-Pin MSOP、8-Pin TSSOP
TP6004	4	2.5~6.0	1.3 MHz	80 uA	130 uA	N/A	3	0.7 V/μs	1	27	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP1561AL1	1	2.5~6.0	6 MHz	600 uA	900 uA	N/A	3	4.5 V/μs	1	19	1	In/Out	5-Pin SC70、5-Pin SOT23
TP1562AL1	2	2.5~6.0	6 MHz	600 uA	900 uA	N/A	3	4.5 V/μs	1	19	1	In/Out	8-Pin SOIC、8-Pin MSOP、8-Pin TSSOP
TP1564AL1	4	2.5~6.0	6 MHz	600 uA	900 uA	N/A	3	4.5 V/μs	1	19	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TPA6581	1	2.7~5.5	10 MHz	1200 uA	1500 uA	N/A	2	8 V/μs	0.1	10	10	In/Out	5-Pin SC70、5-Pin SOT23
TPA6582	2	2.7~5.5	10 MHz	1200 uA	1500 uA	N/A	2	8 V/μs	0.1	10	10	In/Out	8-Pin SOIC、8-Pin MSOP、8-Pin TSSOP
TPA6584	4	2.7~5.5	10 MHz	1200 uA	1500 uA	N/A	2	8 V/μs	0.1	10	10	In/Out	14-Pin SOIC、14-Pin TSSOP

零漂移、低噪声、RRIO 运算放大器
Zero Drift, Ultra Low Noise, RRIO OP-AMPS

Part Number	CH	VDD (V)	GBWP	IQ (Typ.)(per CH) (μA)	IQ (Max.)(per CH) (μA)	CMRR (dB)	VOS (max) (μV)	Slew Rate (V/μs)	VOS TC (μV/° C)	eN @1kHz (nV/ √ Hz)	IBIAS (pA)	Rail-Rail	Package
TPA5511	1	1.7~3.6	9 kHz	0.6	0.79	125	20	0.003	0.05	320	20	In/Out	5-Pin SC70、5-Pin SOT23
TPA5521	1	1.7~3.6	80 kHz	10	15	125	20	0.02	0.05	100	50	In/Out	5-Pin SC70、5-Pin SOT23
TP5531	1	1.8~5.5	350 kHz	34	55	130	10	0.16	0.008	55	50	In/Out	5-Pin SC70、5-Pin SOT23、8-Pin SOIC
TP5532	2	1.8~5.5	350 kHz	34	55	130	10	0.16	0.008	55	50	In/Out	8-Pin MSOP、8-Pin SOIC
TP5534	4	1.8~5.5	350 kHz	34	55	130	10	0.16	0.008	55	50	In/Out	14-Pin SOIC、14-Pin TSSOP
TP5551	1	1.8~5.5	3.5 MHz	500	820	130	5	2.5	0.006	12	50	In/Out	5-Pin SC70、5-Pin SOT23、8-Pin SOIC
TP5552	2	1.8~5.5	3.5 MHz	500	820	130	5	2.5	0.006	12	50	In/Out	8-Pin MSOP、8-Pin SOIC、8-Pin TSSOP
TP5554	4	1.8~5.5	3.5 MHz	500	820	130	5	2.5	0.006	12	50	In/Out	14-Pin SOIC、14-Pin TSSOP
TP5591	1	1.8~5.5	3.3 MHz	550	820	127	20	2.5	0.01	14	60	In/Out	5-Pin SC70、5-Pin SOT23、8-Pin SOIC
TP5592	2	1.8~5.5	3.3 MHz	550	820	127	20	2.5	0.01	14	60	In/Out	8-Pin MSOP、8-Pin SOIC、8-Pin TSSOP
TP5594	4	1.8~5.5	3.3 MHz	550	820	127	20	2.5	0.01	14	60	In/Out	14-Pin SOIC、14-Pin TSSOP
TPA5581	1	2.7~5.5	15 MHz	1000	1200	142	10	5	0.01	10	100	In/Out	5-Pin SC70、5-Pin SOT23
TPA5582	2	2.7~5.5	15 MHz	1000	1200	142	10	5	0.01	10	100	In/Out	8-Pin MSOP、8-Pin SOIC

低噪声、高精密、RRIO 运算放大器
Ultra Low Noise, High Precision, RRIO OP-AMPS

Part Number	CH	VDD (V)	GBWP (MHz)	IQ (Typ.)(per CH) (mA)	IOUT (mA)	VOS (max)	Slew Rate (V/μs)	VOS TC (μV/°C)	VN @0.1Hz to 10Hz (μVPP)	eN @1kHz (nV/√Hz)	IBIAS (pA)	Rail-Rail	Package
TP2331	1	2.2~5.5	1.6	0.19	130	50 μV	0.92	1	3.2	13	0.3	In/Out	5-Pin SC70、5-Pin SOT23
TP2332	2	2.2~5.5	1.6	0.19	130	50 μV	0.92	1	3.2	13	0.3	In/Out	8-Pin MSOP、8-Pin SOIC
TP2311	1	2.2~5.5	10	1.4	130	50 μV	7	1	3.1	8.2	0.3	In/Out	5-Pin SC70、5-Pin SOT23
TP2312	2	2.2~5.5	10	1.4	130	50 μV	7	1	3.1	8.2	0.3	In/Out	8-Pin MSOP、8-Pin SOIC、8-Pin SOT
TP2314	4	2.2~5.5	10	1.4	130	50 μV	7	1	3.1	8.2	0.3	In/Out	14-Pin SOIC、14-Pin TSSOP
TP2301	1	2.2~5.5	20	3.5	130	50 μV	19	1	2	7.3	0.3	In/Out	5-Pin SC70、5-Pin SOT23
TP2302	2	2.2~5.5	20	3.5	130	50 μV	19	1	2	7.3	0.3	In/Out	8-Pin MSOP、8-Pin SOIC
TP2431	1	2.2~5.5	1.6	0.19	130	1 mV	0.9	1	4.1	13	0.3	In/Out	8-Pin SOP、5-Pin SOT23
TP2432	2	2.2~5.5	1.6	0.19	130	1 mV	0.9	1	4.1	13	0.3	In/Out	8-Pin SOP、8-Pin MSOP
TP2434	4	2.2~5.5	1.6	0.19	130	1 mV	0.9	1	4.1	13	0.3	In/Out	14-Pin SOP、14-Pin TSSOP
TP2411	1	2.2~5.5	10	1.4	130	1 mV	7	1	3.14	8.2	0.3	In/Out	8-Pin SOP、5-Pin SOT23
TP2412	2	2.2~5.5	10	1.4	130	1 mV	7	1	3.14	8.2	0.3	In/Out	8-Pin SOP、8-Pin SOT、8-Pin MSOP
TP2414	4	2.2~5.5	10	1.4	130	1 mV	7	1	3.14	8.2	0.3	In/Out	14-Pin SOP、14-Pin TSSOP
TP2401	1	2.2~5.5	20	3.5	130	1 mV	19	1	2	7.3	0.3	In/Out	5-Pin SC70、5-Pin SOT23
TP2402	2	2.2~5.5	20	3.5	130	1 mV	19	1	2	7.3	0.3	In/Out	8-Pin MSOP、8-Pin SOIC
TP2404	4	2.2~5.5	20	3.5	130	1 mV	19	1	2	7.3	0.3	In/Out	14-Pin SOIC、14-Pin TSSOP

高速、高动态范围、低功耗精密 RRIO 运算放大器
High-Speed, High Dynamic Range, Low-Power Precision RRIO OP-AMPS

Part Number	CH	VDD (V)	Shut Down	Topology	BW (MHz)	IQ (Typ.)(1 Channel) (mA)	IOUT (mA)	VOS (max) (mV)	Slew Rate (V/μs)	Gmin (V/V)	eN @1MHz (nV/ √ Hz)	IBIAS (pA)	Rail-Rail	Package
TPH2501	1	2.5~5.5	/	VFA	250	6.5	100	1	180	1	6.3	300	In/Out	5-Pin SOT23、5-Pin SC70
TPH2503	1	2.5~5.5	YES	VFA	250	6.5	100	1	180	1	6.3	300	In/Out	5-Pin SOT23、5-Pin SC70
TPH2502	2	2.5~5.5	/	VFA	250	6.5	100	1	180	1	6.3	300	In/Out	8-Pin MSOP、8-Pin SOP
TPH2504	4	2.5~5.5	/	VFA	250	6.5	100	1	180	1	6.3	300	In/Out	14-Pin SOP、14-Pin TSSOP

36V RRO 通用型运算放大器
36V RRO General OP-AMPS

Part Number	CH	VDD (V)	GBWP (MHz)	Slew Rate (V/μs)	THD+N (%)	eN @1kHz (nV/ √ Hz)	IQ (per CH) (mA)	IBIAS (pA)	VOS (max) (mV)	VOS TC (μV/° C)	Temp Range (° C)	Package
LM321A	1	3~36	0.9	0.5	0.001	70	0.2	60	3	7	- 40 to +125	5-Pin SOT23
LM358A	2	3~36	0.9	0.5	0.001	70	0.2	60	3	7	- 40 to +125	8-Pin SOP、8-Pin MSOP、8-Pin TSSOP
LM324A	4	3~36	0.9	0.5	0.001	70	0.2	60	3	7	- 40 to +125	14-Pin SOP、14-Pin TSSOP
LM2904A	2	3~36	0.9	0.5	0.001	70	0.2	60	3	7	- 40 to +125	8-Pin SOP、8-Pin MSOP
LM2902A	4	3~36	0.9	0.5	0.001	70	0.2	60	3	7	- 40 to +125	14-Pin SOP、14-Pin TSSOP
TPA2641	1	3~36	1.5	0.5	0.01	50	0.55	15,000	2	2	- 40 to +125	5-Pin SOT23
TPA2642	2	3~36	1.5	0.5	0.01	50	0.55	15,000	2	2	- 40 to +125	8-Pin SOIC、8-Pin MSOP
TPA2644	4	3~36	1.5	0.5	0.01	50	0.55	15,000	2	2	- 40 to +125	14-Pin SOIC、14-Pin TSSOP
TP2261	1	3~36	3.5	13	0.0005	28	1	25	2	2	- 40 to +125	5-Pin SOT23、8-Pin SOIC
TP2262	2	3~36	3.5	13	0.0005	28	1	25	2	2	- 40 to +125	8-Pin SOIC、8-Pin MSOP
TP2264	4	3~36	3.5	13	0.0005	28	1	25	2	2	- 40 to +125	14-Pin SOIC、14-Pin TSSOP
TP2581	1	3~36	10	8	0.0005	35	4	25	3	2	- 40 to +125	5-Pin SOT23
TP2582	2	3~36	10	8	0.0005	35	4	25	3	2	- 40 to +125	8-Pin SOIC、8-Pin MSOP
TP2584	4	3~36	10	8	0.0005	35	4	25	3	2	- 40 to +125	14-Pin SOP、14-Pin TSSOP
TPA2681	1	8~36	20	10	0.0005	10	8	100,000	3	2	- 40 to +125	5-Pin SOT23
TPA2682	2	8~36	20	10	0.0005	10	8	100,000	3	2	- 40 to +125	8-Pin SOIC、8-Pin MSOP

高压精密运算放大器
High Voltage, Precision OP-AMPS

Prart Number	CH	VDD (V)	GBWP (MHz)	IQ (Typ.)(per CH) (mA)	IQ (Max.)(per CH) (mA)	VOS (max) (μV)	VOS TC (μV/° C)	e_n @1kHz (nV/ $\sqrt{Hz}$)	IBIAS (pA)	Slew Rate (V/μs)	CMRR (dB)	PSRR (dB)	AVOL (dB)	Rail-Rail	Package
TP1241	1	4.5~36	1	0.075	0.175	250	1	45	25	0.7	130	120	120	-/Out	5-Pin SOT23
TP1242	2	4.5~36	1	0.075	0.175	250	1	45	25	0.7	130	120	120	-/Out	8-Pin SOIC、8-Pin MSOP
TP1281	1	4.5~36	7	1.5	2	100	1	25	25	20	130	120	120	-/Out	5-Pin SOT23、8-Pin SOIC
TP1282	2	4.5~36	7	1	1.6	100	1	25	25	20	130	120	120	-/Out	8-Pin SOIC、8-Pin MSOP
TP1284	4	4.5~36	7	1	1.6	100	1	25	25	20	130	120	120	-/Out	14-Pin SOIC、14-Pin TSSOP
TPA1861	1	4.5~36	5	1.4	1.6	30	0.05	10	500	4	140	140	140	-/Out	5-Pin SOT23、8-Pin SOIC
TPA1862	2	4.5~36	5	1.4	1.6	30	0.05	10	500	4	140	140	140	-/Out	8-Pin SOIC、8-Pin MSOP
TPA1864	2	4.5~36	5	1.4	1.6	30	0.05	10	500	4	140	140	140	-/Out	14-Pin SOIC、14-Pin TSSOP
TPA1881	1	4.5~36	12	2	2.5	20	0.05	6	500	10	140	140	140	-/Out	5-Pin SOT23、8-Pin SOIC
TPA1882	2	4.5~36	12	2	2.5	20	0.05	6	500	10	140	140	140	-/Out	8-Pin SOIC、8-Pin MSOP
TP07A	1	4.5~36	1	1	1.6	150	1	25	25	0.7	130	120	120	-/Out	8-Pin SOIC
TP17	1	4.5~36	7	1.5	2	100	1	25	25	20	130	120	120	-/Out	8-Pin SOIC
TP27	1	4.5~36	5	1.4	1.6	50	0.05	10	500	4	140	140	140	-/Out	8-Pin SOIC

小尺寸封装的产品列表
Small Size Package

Package	Package Size (mm×mm)	Part Number	Product Family	Product Description
DFN-5	1×1	TP321-DF0R	Amplifier	5V, 1MHz GBW, 5mV Vos, 1ch Amplifier
DFN-8	1.5×1.5	LM358A-F1R	Amplifier	36V, 1MHz GBW, 3mV Vos, 2ch Amplifier
DFN-8	2×2	LMV358TP-FR	Amplifier	5.5V, 1MHz GBW, 3.5mV Vos, 2ch Amplifier
DFN-8	2×2	TP6002-FR	Amplifier	5.5V, 1MHz GBW, 3mV Vos, 2ch Amplifier
DFN-8	2×2	TP1562AL1-FR	Amplifier	5.5V, 6MHz GBW, 3mV Vos, 2ch Amplifier
DFN-8	2×2	TP5532-FR	Amplifier	5.5V, 350kHz GBW, 10μV Vos, 2ch Amplifier
DFN-8	3×3	TP2262-F2R	Amplifier	36V, 3.5MHz GBW, 2mV Vos, 2ch Amplifier
DFN-8	2×2	TP2262-FR	Amplifier	36V, 3.5MHz GBW, 2mV Vos, 2ch Amplifier
QFN-16	3×3	TP2264-QF4R	Amplifier	36V, 3.5MHz GBW, 2mV Vos, 4ch Amplifier

特殊放大器 SPECIAL AMPLIFIERS

电流信号检测放大器 Current Sensing Amplifiers

Part Number	CH	VDD (V)	Common Mode Voltage (V)	Bandwidth (kHz)	IQ (μ A, Typ.)	Ib (μ A, Typ.)	VOS (μ V, max)	Slew Rate (V/ μ s)	VOS TC (μ V/ $^{\circ}$ C, Max)	Gain (V/V)	Gain Drift (ppm/ $^{\circ}$ C , Max)	Output Type	Internal Comparator	Package
TP181A1	1	2.7~30	-0.3~36	48	120	35	100	0.6	0.5	50	10	Analog	N/A	6-Pin SC70
TP181A2	1	2.7~30	-0.3~36	30	120	35	100	0.6	0.5	100	10	Analog	N/A	6-Pin SC70
TP181A3	1	2.7~30	-0.3~36	20	120	35	100	0.6	0.5	200	10	Analog	N/A	6-Pin SC70
TP182A1	1	2.7~30	-0.3~36	48	120	35	50	0.6	0.5	50	10	Analog	N/A	6-Pin SC70
TP182A2	1	2.7~30	-0.3~36	30	120	35	50	0.6	0.5	100	10	Analog	N/A	6-Pin SC70
TP182A3	1	2.7~30	-0.3~36	20	120	35	30	0.6	0.5	200	10	Analog	N/A	6-Pin SC70
TP182A4	1	2.7~30	-0.3~36	20	120	35	30	0.6	0.5	500	10	Analog	N/A	6-Pin SC70
TPA183A1	1	2.7~36, supply from IN+ pin	2.7~36	100	120	35	100	0.6	0.5	25	10	Analog	N/A	5-Pin SOT23
TPA183A2	1	2.7~36, supply from IN+ pin	2.7~36	48	120	35	100	0.6	0.5	50	10	Analog	N/A	5-Pin SOT23
TPA183A3*	1	2.7~36, supply from IN+ pin	2.7~36	30	120	35	100	0.6	0.5	100	10	Analog	N/A	5-Pin SOT23
TPA183A4*	1	2.7~36, supply from IN+ pin	2.7~36	20	120	35	100	0.6	0.5	200	10	Analog	N/A	5-Pin SOT23
TP1285T	2	3.0~5.5	3.0~76	60	750	65	100	0.6	0.5	20	10	Analog	N/A	8-Pin MSOP、8-Pin WLCSP
TPA1295T*	1	3.0~18	0~70	500	1000	100	100	20	0.5	20	5	Analog	N/A	8-Pin SOP
TPA1295F	1	3.0~18	0~70	500	1000	100	100	20	0.5	50	5	Analog	N/A	8-Pin SOP
TPA1295H*	1	3.0~18	0~70	500	1000	100	100	20	0.5	100	5	Analog	N/A	8-Pin SOP
TPA2296T	1	3.0~18	0~70	500	1000	100	500	20	0.5	20	5	Analog	N/A	5-Pin SOT23
TPA2296F*	1	3.0~18	0~70	500	1000	100	500	20	0.5	50	5	Analog	N/A	5-Pin SOT23
TPA2296H	1	3.0~18	0~70	500	1000	100	500	20	0.5	100	5	Analog	N/A	5-Pin SOT23、6-Pin SOT23
TPA2295CT	1	3.0~18	0~70	500	1000	100	500	20	0.5	20	5	Analog	1ch	8-Pin MSOP
TPA2295CF	1	3.0~18	0~70	500	1000	100	500	20	0.5	50	5	Analog	1ch	8-Pin MSOP
TPA2295CH	1	3.0~18	0~70	500	1000	100	500	20	0.5	100	5	Analog	1ch	8-Pin MSOP

* Contact 3PEAK Sales For More Preview Products Information and Samples

仪表放大器 Instrumentation Amplifiers

Part Number	CH	VDD (V)	IQ (mA, Max)	BW (MHz)	Slew Rate (V/ μ s)	Ib (nA, Typ.)	VOS (μ V, Max)	VOS TC (μ V/ $^{\circ}$ C, Typ.)	CMRR (db, Min)	Gain (V/V)	Gain Error (%, Max)	Package
TPA1286	1	4.5~36	4.5	1.6	5	0.3	50	0.1	80 at G=1	1~1000	0.05 at G=1	8-Pin SOP、8-Pin MSOP、8-Pin DFN 3 $\times$ 3

差动放大器
Differential Amplifiers

Part Number	CH	VDD (V)	IQ (mA, Max)	BW (MHz)	VOS (mV, Max)	VOS TC ($\mu\text{V}/^{\circ}\text{C}$, Typ.)	Common Mode Voltage at VDD=30V (V)	CMRR (db, Min)	Gain (V/V)	Gain Error (% , Max)	Package
TPA9151	1	4.5~36	3	0.5	1	2	-275 ~ +275	80	1	0.03	8-Pin SOP
TPA9361	1	4.5~36	2	3	0.3	2	-60 ~ +57	80	1	0.05	8-Pin SOP

对数放大器
Logarithmic Amplifiers

Part Number	CH	VDD (V)	IQ (mA, Max)	Input Current Range	Logarithmic Slope (mV/dec, Typ.)	Law Conformance Error (dB, Max.)	Package
TPA8304	1	4.5~5.5	10	1nA to 12mA	200	0.25 at Input>10nA	14-Pin TSSOP、16-Pin QFN

带电压基准放大器
Amplifiers with Voltage Reference

Part Number	CH	VDD (V)	IQ (μA , Typ.)	GBWP (MHz)	Slew Rate (V/ μs)	Ib (pA, Typ.)	VOS (mV, max)	VOS TC ($\mu\text{V}/^{\circ}\text{C}$, Typ.)	Reference Output (V, Typ.)	Reference Accuracy (% , Max)	Package
TPA7252	2	3~36	220	1	0.5	50	4	2	2.5	1%, 0.4%	8-Pin SOP

光通讯单端输入线性跨阻放大器
Single-Ended Input Linear Transimpedance Amplifier in Optical Communication

Part Number	CH	PD (Power Dissipation) (mW)	EBW (GHz, 3 dB)	Transimpedance (k Ω)	Current Noise (pA/ $\sqrt{\text{Hz}}$)	THD (% , max)	Maximum DC (average) Input Current (mApp)	Available in Die Form (mm)
TPX5611TA	1	180	40	6	12	3	3	1.5x1.5
TPX5614TA	4	720	40	6	12	3	3	3.2x1.5
TPX2811TA	1	110	25	8	8	3	3	1.6x0.85
TPX2814TA	4	420	25	8	10	2	3	3.2x1.5-750 μm Channel pitch
TPX2815TA	4	420	25	8	10	2	3	3.2x1.5-250 μm Channel pitch

数字式电流 / 功率监测器
CURRENT / POWER MONITOR

Part Number	Features	Common Mode Voltage (Max) (V)	Input Offset (+/-)(Max) (μV)	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
TPA626	Alert Function Bi-directional Low-side Capable	0~36	30	1	0.4	120	5.5	2.7	1.1	I2C SMBUS	-40 to +125	10-Pin MSOP
TPA620	Bi-directional Low-side Capable Programmable Gain	0~36	50	0.125, 0.25, 0.5, 1	0.5	110	5.5	2.7	1.1	I2C SMBUS	-40 to +125	10-Pin MSOP

闭环应用的霍尔效应磁传感器信号调理 IC
Hall-Effect Magnetic Sensor Signal Conditioning IC for Closed-Loop Applications

Part Number	Features	VDD (V)	Interface Type	Temp Range (° C)	Package
TPAFE411	AFE for Magnetic Current Sensing	2.7~5.5	Analog Voltage	- 40 to +125	20-PIN QFN 4x4 with exposed pad

模拟开关 ANALOG SWITCH

Part Number	CH	Switch Config	VDD (V)	VEE (V)	Input Range	BW (MHz)	IQ (Typ.)(1 Channel) (μA)	Ron (Ω)	Leakage Current (nA)	VIH Min (V)	VIL Max (V)	tON (ns)	tOFF (ns)	Latch up (mA)	Package
TPW3111	1	1:1	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	600	5-Pin SOT23
TPW3115	1	1:1	1.65~5.5	N/A	0V to VDD	250	0.3	5	10	1.5	0.7	100	100	600	5-Pin SC70、5-Pin SOT23
TPW4157	1	2:1	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	800	6-Pin SC70
TPW3157A	1	2:1	1.65~5.5	N/A	0V to VDD	100	0.3	2	10	2.4	0.8	40	15	800	6-Pin SC70
TPW3125	1	2:1	1.65~5.5	N/A	0V to VDD	250	0.3	5	10	1.42	0.7	100	100	600	6-Pin SC70、6-Pin SOT23
TPW3221	2	2:1	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	800	10-Pin MSOP、10-Pin DFN
TPW3223	2	2:1	1.65~5.5	N/A	0V to VDD	100	0.3	1.15	10	2.4	0.8	40	15	800	10-Pin QFN 1.4×1.8
TPW1221	2	2:1	1.65~5.5	N/A	-2.5V to VDD**	60	0.3	0.9	100	1.6	0.6	100	60	300	10-Pin QFN 1.4×1.8
TPW4051	1	8:1	3~12	-6~0*	VEE to VDD	200	8	120	100	2.0	0.8	60	50	150	16-Pin SOP、16-Pin TSSOP、16-Pin QFN
TPW4052	2	4:1	3~12	-6~0*	VEE to VDD	200	8	120	100	2.0	0.8	60	50	150	16-Pin SOP、16-Pin TSSOP
TPW4053	3	2:1	3~12	-6~0*	VEE to VDD	200	8	120	100	2.0	0.8	60	50	150	16-Pin SOP、16-Pin TSSOP
TPW4054	1	4:1	3~12	N/A	0V to VDD	200	8	120	100	2.0	0.8	60	50	150	10-Pin MSOP
TPW4066	4	1:1	3~12	N/A	0V to VDD	200	8	120	100	2.0	0.8	60	50	150	14-Pin SOP、14-Pin TSSOP
TPW4425	4	2:1	3~16	-8~0*	VEE to VDD	200	1	10	100	1.5	0.5	320	130	150	20-Pin QFN、20-Pin TSSOP

*: VDD-VEE 必须≤ VDD 的最大值

** *: 最低输入电压是 -2.5V 和 VDD-5.5V 的最高值，需要保证输入电压范围不能超出 VDD-5.5V

音频线路驱动器 AUDIO LINE DRIVERS

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

视频滤波驱动器
VIDEO FILTER DRIVERS

Part Number	Description	Resolution	Channel	VDD (V)	-3dB Bandwidth (MHz)	Quiescent Current @3.3V (mA)	Voltage Gain (dB)	Stop-Band Rejection @27MHz (dB)	Diff. Gain (%)	Diff. Phase (Deg)	THD (%)	Package
TPF110 TPF110U	Low Power Consumption, a Shutdown Function and SAG Correction, Single six-order 9MHz	480i, 576i	1-SD	2.85~5.5	9	3.9	6	51.2	0.4	0.7	0.1	SC70-6 SOT23-6
TPF111 TPF111U	Ultra-Portable, Single-Channel, Six-order CVBS Video Amplifier	480i, 576i	1-SD	3.0~5.5	9	3.8	6	51.2	0.4	0.7	0.1	SC70-5
TPF113	Low Power Consumption, Sixth-order Low-Pass Filtering and 9MHz 6dB Gain, 3-Channel SD Video	480i, 576i	3-SD	3.0~5.5	9	11.6	6	51.2	0.4	0.7	0.1	SO-8
TPF114	With a Sixth-order Filter and 6dB Gain 9MHz, 4-Channel SDTV Video Amplifier	480i, 576i	4-SD	3.0~5.5	9	16.0	6	51.2	0.4	0.7	0.1	MSOP10 TSSOP14
TPF116	9MHz Sixth-order Filter, 6-SD Channel Support CVBS, S-Video and Component Video	480i, 576i	6-SD	3.0~5.5	9	23.2	6	51.2	0.4	0.7	0.1	TSSOP14
TPF130	Low Power, 36MHz Filter, a Shutdown, Single-Channel High-Definition Video Driver	720p, 1080i	1-HD	3.0~5.5	36	6.0	6	31.1dB @74.25MHz	0.2	0.4	0.3	SOT23-6
TPF131	Low Power, 36MHz Filter and 6dB Gain, Single-Channel High-Definition Video Driver	720p, 1080i	1-HD	3.0~5.5	36	6.0	6	31.1dB @74.25MHz	0.2	0.4	0.3	SOT23-6
TPF133A	Low Power, 36MHz Filter and 6dB Gain, 3-Channel HD Video Driver	720p, 1080i	3-HD	3.0~5.5	36	18.0	6	31.1dB @74.25MHz	0.2	0.4	0.3	SO-8
TPF134	With a 1-SD and 3-HD Filter and 6dB Gain, 4-Channel Video Filter	1080i, 720p	1-SD & 3-HD	3.0~5.5	9 , 36	22.0	6	31.1dB @74.25MHz	0.2	0.4	0.3	MSOP10 TSSOP14
TPF140	Low Power, Single-Channel Sixth-order with Enable Function Full-HD Video Filter Driver	1080p, 1080i, 720p	1-FHD	3.0~5.5	72	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOT23-6
TPF141N	Low Power, Single-Channel Sixth-order with Enable Function Full-HD Video Filter Driver	1080p, 1080i, 720p	1-FHD	3.0~5.5	50	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOT23-6
TPF141	Low Power, Small Footprint, Single Six-order Full-HD Video Filter Driver	1080p, 1080i, 720p	1-FHD	3.0~5.5	72	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOT23-6
TPF142	With a 1-SD and 1-FHD Filter and 6dB Dain, 2-Channel Video Filter	1080p, 1080i, 720p	1-SD & 1-FHD	3.0~5.5	9 , 72	14.5	6	31.2dB @148MHz	0.1	0.3	0.6	MSOP8 TSSOP14
TPF143	6dB Gain, 3-Channel Full-HD Video Filter Driver	1080p, 1080i, 720p	3-FHD	3.0~5.5	72	34.5	6	31.2dB @148MHz	0.1	0.3	0.6	SO-8
TPF144	With a 1-SD and 3 Full HD Filter and 6dB Gain, 4-Channel Video Driver	1080p, 1080i, 720p	1-SD & 3-FHD	3.0~5.5	9 , 72	45.0	6	31.2dB @148MHz	0.1	0.3	0.6	MSOP8 TSSOP14
TPF153	Low Power, 3-Channel 6dB Gain Video Buffer	1080p, 1080i	3-CH	3.0~5.5	220	33.0	6	/	0.4	0.3	0.2	SO-8
TPF147	Low Power, 72MHz FHD/36MHz HD	1080P/60 1080P/30	1-FHD or HD	3.0~5.5	36 or 72	11.5	6	32dB@74MHz 34dB@148MHz	0.2/0.4	0.4/0.7	0.15	SOT23-6
TPF1341	Low Power, 36MHz HD Video Filter, Integrated Comparator	1080P	1-HD	3.0~5.5	36	11	6	31.1dB @74.25MHz	0.2	0.4	0.3	SOP8 MSOP8
TPF1441	Low Power, 72MHz HD Video Filter, Integrated Comparator	1080P/60	1-HD	3.0~5.5	72	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOP8 MSOP8
TPF1441C	Low Power, 72MHz HD Video Filter, Integrated Comparator	1080P/60	1-HD	3.0~5.5	72	11.5	6	31.2dB @148MHz	0.1	0.3	0.6	SOP8 MSOP8
TPF1441NC	Low Power, 52MHz HD Video Filter, Integrated Comparator	1080P/60	1-HD	3.0~5.5	52	10	6	31.2dB @148MHz	0.1	0.3	0.6	MSOP8

比较器
COMPARATORS

PartNumber	Product Description	CH	VDD (V)	IQ (Typ.) (per CH)	IQ (Max.) (per CH)	tPD+	tPD-	VOS (max) (mV)	Hyst. (mV)	Output Type	Package
TP2021	1.8V, 440nA (max.) Comparator with 1.248V±1.4% Voltage Reference	1	1.8~5.5	390 nA	440 nA	13 μs	14 μs	3	4	Push-Pull	6-Pin SC70、 6-Pin SOT23
TP2011	Single, 1.6V, 250nA (max.), RRIO, Push-Pull Output Comparator	1	1.6~5.5	200 nA	250 nA	13 μs	14 μs	3	4	Push-Pull	5-Pin SOT23
TP2012	Dual, 1.6V, 250nA (max.), RRIO, Push-Pull Comparator	2	1.6~5.5	200 nA	250 nA	13 μs	14 μs	3	4	Push-Pull	8-Pin SOIC、 8-Pin MSOP
TP1941	Single, 68ns, 1.8V, 46μA, RRI, Push-Pull Output Comparator	1	1.8~5.5	46 μA	58 μA	68 ns	72 ns	3	6	Push-Pull	5-Pin SC70、 5-Pin SOT23
TP1942	Dual, 68ns, 1.8V, 46μA, RRI, Push-Pull Output Comparator	2	1.8~5.5	46 μA	58 μA	68 ns	72 ns	3	6	Push-Pull	8-Pin SOIC
TP1946	Dual, 70ns, 1.8V, 49μA, RRIO, Open Drain Output Comparator	2	1.8~5.5	49 μA	60 μA	-	70 ns	3	6	Open Drain	8-Pin SOIC
TP1961	Single,7ns, 2.7V to 5.5V Comparator with RRIO	1	2.7~5.5	2.4 mA	-	7 ns	7 ns	6	7.5	Push-Pull	5-Pin SOT23
TP1962	Dual, 7ns, 2.7V to 5.5V Comparator with RRIO	2	2.7~5.5	2.4 mA	-	7 ns	7 ns	6	7.5	Push-Pull	8-Pin DFN
TP1981	Single, 3.5nS, 2.5~5.5V Comparator with Rail-to-Rail Output	1	2.5~5.5	4 mA	-	3.5 ns	3.5 ns	15	5	Push-Pull	6-Pin SC70
LMV331TP	General Purpose, Single, 1.8V, RRI, 120ns, Open Drain Comparator	1	1.8~5.5	40 μA	70 μA	-	120ns	3.5	6	Open Drain	5-Pin SC70、 5-Pin SOT23
LMV393TP	General Purpose, Dual, 1.8V, RRI, 120ns, Open Drain Comparator	2	1.8~5.5	40 μA	70 μA	-	120ns	3.5	6	Open Drain	8-Pin SOIC、 8-Pin MSOP
LM331A	Single Differential Comparator	1	2.5~36	0.15 mA	0.3 mA	-	2 μs	6	-	Open Drain	5-Pin SOT23
LM331AU	Single Differential Comparator	1	2.5~36	0.15 mA	0.3 mA	-	2 μs	6	-	Open Drain	5-Pin SOT23
LM393A	Dual Differential Comparator	2	2.5~36	0.15 mA	0.3 mA	-	2 μs	6	-	Open Drain	8-Pin SOP、 8-Pin TSSOP、 8-Pin DFN
LM339A	Quad Differential Comparator	4	2.5~36	0.15 mA	0.3 mA	-	2 μs	6	-	Open Drain	14-Pin SOP、 14-Pin TSSOP
LM2903A	Dual Differential Comparator	2	2.5~36	0.15 mA	0.3 mA	-	2 μs	6	-	Open Drain	8-Pin SOP、 8-Pin MSOP
LM2901A	Quad Differential Comparator	4	2.5~36	0.15 mA	0.3 mA	-	2 μs	6	-	Open Drain	14-Pin SOP
LM211	Single High Speed Comparator	4	3.5~36	6 mA	8 mA	360 ns	330 ns	3	-	Open Drain	8-Pin SOIC

接口 INTERFACE

CAN CAN

Part Number	Description	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
TPT1051V	3.3V VIO, CAN FD, 30V Vcm Voltage	1	1	4.5	5.5	5,000	50	8	12	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1256	3.3V VIO, CAN FD, 30V Vcm Voltage	1	1	4.5	5.5	5,000	50	8	12	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1255	5V CAN FD, 30V Vcm Voltage, pin5 NC	1	1	4.5	5.5	5,000	50	8	12	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1254*	5V CAN FD, 30V Vcm Voltage, pin5 EN	1	1	4.5	5.5	5,000	50	8	12	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1042V	3.3V VIO, CAN FD, 30V Vcm Voltage	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1042*	5V CAN FD, 30V Vcm Voltage, pin5 NC	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1042VQ*	Automotive grade1, 3.3V VIO, CAN FD, 30V Vcm	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1042Q*	Automotive grade1, 5V CAN FD, 30V Vcm, pin5 NC	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT1043*	5V CAN FD, 30V Vcm Voltage	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	14-Pin SOIC、14-Pin DFN
TPT1043Q*	Automotive grade1, 5V CAN FD, 30V Vcm	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	14-Pin SOIC、14-Pin DFN
TPT1145*	5V CAN FD, 30V Vcm Voltage, partial networking	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	14-Pin SOIC、14-Pin DFN
TPT1145Q*	Automotive grade1, 5V CAN FD, 30V Vcm,partial networking	1	1	4.5	5.5	5,000	50	8	15	-40 to +125	14-Pin SOIC、14-Pin DFN

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I2C Level Shift I2C Level Shift

Part Number	Description	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	Level Shift	1	1	1.2	5.5	1,000	1	4	/	-40 to +85	8-Pin MSOP、8-Pin DFN1.4×1.0、8-Pin DFN3×4
TPT29617A	Level Shift and Redriver 20mA capability	1	1	1.2	5.5	1,000	15	7	/	-40 to +125	8-Pin MSOP、8-Pin SOP
TPT29511B	Hot-swap I2C-BUS buffer	1	1	2.35	5.5	1,000	6	7	/	-40 to +125	8-Pin MSOP、8-Pin SOP
TPT24857	SD card level shift, SD3.0	7	7	1.1	3.6	208,000	7	8	/	-40 to +85	20-Pin WLCSP

IO Expander
IO Expander

Part Number	Description	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
TPT29555	I2C to 16 bit GPIO, reserved 0X0C registers	2	16	1.65	5.5	400	0.03	4	/	-40 to +85	24-Pin TSSOP、24-Pin QFN4×4
TPT29554*	I2C to 8 bit GPIO, reserved 0X0C registers	2	8	1.65	5.5	400	0.03	4	/	-40 to +85	16-Pin TSSOP、16-Pin SOP
TPT29548A*	1:8 I2C Switch, remove reserved 0X0C registers, pin1 of QFN package is in Q2	1	8	2.5	5.5	400	0.03	3.5	/	-40 to +85	24-Pin TSSOP、24-Pin QFN4×4
TPT29548	1:8 I2C Switch, reserved 0X0C registers	1	8	2.5	5.5	400	0.03	3.5	/	-40 to +85	24-Pin TSSOP、24-Pin QFN4×4
TPT29545	1:4 I2C Switch, reserved 0X0C registers	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	20-Pin TSSOP、20-Pin QFN4×4
TPT29545A*	1:4 I2C Switch, remove reserved 0X0C registers	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	20-Pin TSSOP、20-Pin QFN4×4
TPT29546*	1:4 I2C Switch, reserved 0X0C registers	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	16-Pin TSSOP、16-Pin SOIC
TPT29546A*	1:4 I2C Switch, remove reserved 0X0C registers	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	16-Pin TSSOP、16-Pin SOIC
TPT29516*	Dual power supplier, I2C to 16 bit GPIO	2	16	2.5	5.5	400	0.03	4	/	-40 to +85	24-Pin TSSOP、24-Pin QFN4×4
TPT29508*	Dual power supplier, I2C to 8 bit GPIO	2	8	2.5	5.5	400	0.03	4	/	-40 to +85	16-Pin TSSOP

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RS232
RS232

Part Number	Description	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	RS232, 2Tx/Rx, Enhance ESD Protection	2	2	3	5.5	250	15	8	12	-40 to +125	16-Pin SOP、16-Pin TSSOP、16-Pin SSOP
TPT3122EH	RS232, 1.8V I/O, 2Tx/Rx, Enhance ESD Protection	2	2	3	5.5	1000	2	8	12	-40 to +125	24-Pin QFN

RS422
RS422

Part Number	Description	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
TPT4031	4 Tx, RS422 High Speed	4	0	3	5.5	50,000	0.05	18	9	-40 to +125	16-Pin SOIC、16-Pin DFN、16-Pin TSSOP
TPT4032	4 Rx, RS422 High Speed	0	4	3	5.5	50,000	0.05	18	10	-40 to +125	16-Pin SOIC、16-Pin DFN、16-Pin TSSOP

RS485
RS485

Part Number	Description	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
TP8485E	Half Duplex, RS485	1	1	3	5.5	250	0.93	12	Yes	-40 to +125	8-Pin SOIC、8-Pin MSOP
TPT485N	Half Duplex, RS485, Bus-Polarity Correcting	1	1	3	5.5	500	0.95	18	12	-40 to +125	8-Pin SOIC
TPT487	Half Duplex, RS485, High Reliability	1	1	3	5.5	500	0.75	18	15	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT488*	Full Duplex, 500kbps RS485, 8 pins package	1	1	3	5.5	500	2.5	20	15	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT486*	Full Duplex, 500kbps RS485, 14 pins package	1	1	3	5.5	500	2.5	20	15	-40 to +125	14-Pin SOIC
TPT481	Half Duplex, 20Mbps RS485 High Speed	1	1	3	5.5	20,000	2.7	18	15	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT482*	Full Duplex, 20Mbps RS485 High Speed, 14 pins package	1	1	3	5.5	20,000	2.5	20	15	-40 to +125	14-Pin SOIC
TPT480*	Full Duplex, 20Mbps RS485 High Speed, 8 pins package	1	1	3	5.5	20,000	2.5	20	15	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT4089*	Full Duplex RS-485 Transceivers with polarity control	1	1	3	5.5	500 or 20,000	2.5	18	15	-40 to +125	14-Pin SOIC
TPT75176H	Half Duplex, RS485 High Speed, High Reliability	1	1	3	5.5	10,000	2.2	15	15	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT75176A	Half Duplex, RS485 High Speed	1	1	3	5.5	5,000	5	12	Yes	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT75176B	Half Duplex, RS485 High Speed	1	1	3	5.5	10,000	5	12	Yes	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT4181	Half Duplex, RS485 High Speed, 1.8V I/O, 10 pin pacakge	1	1	3	5.5	500 or 20,000	2.2	15	15	-40 to +125	10-Pin DFN

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MLVDS
MLVDS

Part Number	Description	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
TPT9H221	Half Duplex, MLVDS Type2	1	1	3	3.6	200,000	24	8	Yes	-40 to +85	8-Pin SOIC
TPT9H111	Half Duplex, MLVDS Type1	1	1	3	3.6	100,000	24	8	Yes	-40 to +85	8-Pin SOIC
TPT9L484	LVDS, 4Rx	0	4	3	3.6	400,000	20	8	Yes	-40 to +85	16-Pin TSSOP

隔离器件
ISOLATION

ISOLATOR
ISOLATOR

Part Number	Description	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
TPT7720F	2-ch 100Mbps, 150kV/μs CMTI, default output Low	2	0	2.25	5.5	100,000	3	6	6	-40 to +125	8-Pin SOIC、16-Pin WSOP
TPT7721F	2-ch 100Mbps, 150kV/μs CMTI, default output Low	1	1	2.25	5.5	100,000	3	6	6	-40 to +125	8-Pin SOIC、16-Pin WSOP
TPT7720	2-ch 100Mbps, 150kV/μs CMTI, default output high	2	0	2.25	5.5	100,000	3	6	6	-40 to +125	8-Pin SOIC、16-Pin WSOP
TPT7721	2-ch 100Mbps, 150kV/μs CMTI, default output high	1	1	2.25	5.5	100,000	3	6	6	-40 to +125	8-Pin SOIC、16-Pin WSOP
TPT7740F*	4-ch, 5kv rms Viso, 150kV/μs CMTI, default output Low	4	0	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin SOIC、16-Pin WSOP
TPT7741F	4-ch, 5kv rms Viso, 150kV/μs CMTI, default output Low	3	1	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin SOIC、16-Pin WSOP
TPT7742F*	4-ch, 5kv rms Viso, 150kV/μs CMTI, default output Low	2	2	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin SOIC、16-Pin WSOP
TPT7740*	4-ch, 5kv rms Viso, 150kV/μs CMTI, default output High	4	0	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin SOIC、16-Pin WSOP
TPT7741	4-ch, 5kv rms Viso, 150kV/μs CMTI, default output High	3	1	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin SOIC、16-Pin WSOP
TPT7742*	4-ch, 5kv rms Viso, 150kV/μs CMTI, default output High	2	2	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin SOIC、16-Pin WSOP
TPT7840F*	4-ch, 5.7kv rms Viso, 150kV/μs CMTI, default output Low	4	0	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin WSOP
TPT7841F*	4-ch, 5.7kv rms Viso, 150kV/μs CMTI, default output Low	3	1	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin WSOP
TPT7842F*	4-ch, 5.7kv rms Viso, 150kV/μs CMTI, default output Low	2	2	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin WSOP
TPT7840*	4-ch, 5.7kv rms Viso, 150kV/μs CMTI, default output High	4	0	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin WSOP
TPT7841*	4-ch, 5.7kv rms Viso, 150kV/μs CMTI, default output High	3	1	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin WSOP
TPT7842*	4-ch, 5.7kv rms Viso, 150kV/μs CMTI, default output High	2	2	2.25	5.5	100,000	3	6	6	-40 to +125	16-Pin WSOP

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ISO-CAN
ISO-CAN

Part Number	Description	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
TPT71050*	Isolated CAN, 5kv rms Viso, 100kV/μs CMTI	1	1	4.5	5.5	5,000	1.8	8	8	-40 to +125	16-Pin WSOP
TPT71044*	Isolated CAN, 5kv rms Viso, 100kV/μs CMTI	1	1	4.5	5.5	5,000	2.8	8	8	-40 to +125	16-Pin WSOP

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ISO-RS485
ISO-RS485

Part Number	Description	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
TPT7487*	Isolated RS485, half-duplex, 5kv rms Viso, 100kV/μs CMTI	1	1	3	5.5	500	2.5	15	6	-40 to +125	16-Pin WSOP
TPT7488*	Isolated RS485, half-duplex, 5kv rms Viso, 100kV/μs CMTI	1	1	3	5.5	500	6.5	15	6	-40 to +125	16-Pin WSOP

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转换器
CONVERTER

高精度数模转换器
Precision DAC

Part Number	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)	Temp Range (°C)	Package
TPC112S1	12	2.7~5.5	1	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	8-Pin MSOP
TPC114S1	14	2.7~5.5	1	±8	±1	±30	80	±0.3	0~Vref	2	-40 to +125	8-Pin MSOP
TPC116S1	16	2.7~5.5	1	±16	±1	±30	80	±0.3	0~Vref	2	-40 to +125	8-Pin MSOP
TPC112S4	12	2.7~5.5	4	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	16-Pin TSSOP
TPC116S4	16	2.7~5.5	4	±16	±1	±30	80	±0.3	0~Vref	2	-40 to +125	16-Pin TSSOP
TPC112S8	12	2.7~5.5	8	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	16-Pin TSSOP、 16-Pin QFN
TPC112S8U	12	2.7~5.5	8	±2	±1	±30	80	±0.3	0~Vref	2	-40 to +125	16-Pin TSSOP、 16-Pin QFN
TPC116S8	16	2.7~5.5	8	±16	±1	±30	80	±0.3	0~Vref	2	-40 to +125	16-Pin TSSOP、 16-Pin QFN
TPC2160	16	2.7~5.5	1	±1	±1	±0.17	150	±0.011	0~Vref	10	-40 to +105	SOP-8
TPC2161	16	2.7~5.5	1	±1	±1	±0.17	150	±0.011	0~Vref	10	-40 to +105	SOP-14

高速数模转换器
High-Speed DAC

Part Number	Resolution	Update Rate (MSPS)	CH	Datum	INL (LSB)	DNL (LSB)	SFDR (dB)	VDD (V)	Power (mW)	Package
3PD9708E	8	125	1	Internal, 1.10V	0.25	0.25	70	2.7~5.5	175	TSSOP-28
3PD5651E	10	125	1	Internal, 1.10V	0.5	0.25	79	2.7~5.5	175	TSSOP-28

高精度模数转换器
Precision ADC

Part Number	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)	Temp Range (°C)	Package
TPC5120	12	2.7~5.5	16	1	±1.5	±1.5	±4	±2	0~2.5, 0~5	1.65	-40 to +125	TSSOP38、QFN5X5-32
TPC5121	12	2.7~5.5	8	1	±1.5	±1.5	±4	±3	0~2.5, 0~5	1.65	-40 to +125	QFN4X4-24
TPAFE516	16	4.75~5.25	8	0.35	±2	±1	±15	±15	±10, ±5	52	-40 to +125	LQFP10X10-64

流水线型高速模数转换器
High-Speed Pipeline ADC

Part Number	Resolution	Update Rate (MSPS)	CH	Interface	VIN (V)	Datum	DNL (LSB)	SINAD (dB)	VDD (V)	Power (mW)	Package
3PA9280	8	32	1	Parallel	0~2	Internal	0.2	49	2.7~5.5	85	TSSOP-28
3PA1030	10	50	1	Parallel	0~2	Internal	0.3	56.5	2.7~5.5	84	TSSOP-28

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

Part Number	ADC Channel	ADC Resolution	DAC Channel	DAC Resolution	GPIO Number	VREF	Temperature Sensor	Interface	VDD (V)	VDDIO (V)	Package
TPAFE0808	8	12bit	8	12bit	8	Internal/External	Internal	SPI	2.7~5.5	1.8~5.5	LFCSP-16 3×3、WLCSP-16 2×2

线性稳压电源

VOLTAGE LINEAR REGULATOR

低压差、高电源纹波抑制比的通用型 LDO

General Purpose LDO with Low Dropout Voltage and High PSRR

Part Number	VIN (V)	Output Voltage (V)	Accuracy	IQ (μA)	Max Output Current (mA)	Dropout Voltage @Max Output Current (mV)	PSRR @1kHz (dB)	Junction Temperature Range (°C)	Package
TPL730ADJ-5TR	2.4~5.5	Adjustable (0.8~5)	1%	49	300	200 typ	60	-40 to +125	SOT23-5
TPL730Fxx-5TR	2.4~5.5	Fixed (1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3)	1%	49	300	200 typ	60	-40 to +125	SOT23-5
TPL730ADJ-CR	2.4~5.5	Adjustable (0.8~5)	1%	49	300	200 typ	60	-40 to +125	SC70-5
TPL730Fxx-CR	2.4~5.5	Fixed (1.2*, 1.5*, 1.8, 2.5*, 2.7*, 2.8, 2.9*, 3.0, 3.3)	1%	49	300	200 typ	60	-40 to +125	SC70-5
TPL730Fxx-FR	2.4~5.5	Fixed (1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3)	1%	49	300	200 typ	60	-40 to +125	1×1 DFN-4
TPL740ADJ-5TR	2.4~5.5	Adjustable (0.8~5)	1%	49	500	300 typ	60	-40 to +125	SOT23-5
TPL740Fxx-5TR	2.4~5.5	Fixed (1.2, 1.5*, 1.8, 2.5, 2.7*, 2.8, 2.9*, 3.0, 3.3)	1%	49	500	300 typ	60	-40 to +125	SOT23-5
TPL740Fxx-89TR	2.4~5.5	Fixed (1.2*, 1.5*, 1.8*, 2.5*, 2.7*, 2.8*, 2.9*, 3.0*, 3.3)	1%	49	500	300 typ	60	-40 to +125	SOT89-3
TPL740ADJ-S6TR-S	2.4~5.5	Adjustable (0.8~5)	1%	49	500	300 typ	65	-40 to +125	SOT23-6
TPL5031xx-S5TR	1.5~5.5	Fixed (0.75*, 0.8, 0.9*, 0.92*, 1.0*, 1.1*, 1.2, 1.5*, 1.8, 2.5, 2.7*, 2.8, 2.9*, 3.0*, 3.3, 3.6)	1%	55	300	250 typ	70	-40 to +125	SOT23-5
TPL5031xx-DF1R	1.5~5.5	Fixed (0.75*, 0.8*, 0.9*, 0.92*, 1.0*, 1.1*, 1.2*, 1.5*, 1.8*, 2.5*, 2.7*, 2.8*, 2.9*, 3.0*, 3.3*, 3.6*)	1%	55	300	250 typ	70	-40 to +125	1×1 DFN-4
TPL6205AD-ES1R*	1.4~6.5	Adjustable (0.5~5.2)	1%	-	2000	150 typ	70	-40 to +125	ESOP-8
TPL6305AD-ES1R*	1.4~6.5	Adjustable (0.5~5.2)	1%	-	3000	150 typ	70	-40 to +125	ESOP-8

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低静态功耗 LDO

Low Quiescent Current LDO

Part Number	VIN (V)	Output Voltage (V)	Accuracy	Max Output Current (mA)	IQ (μA)	Dropout Voltage @Max Output Current (mV)	PSRR @1kHz (dB)	Junction Temperature Range (°C)	Package
TPL710Fxx-3TR	2.4~6	Fixed (1.0, 1.2, 1.5*, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6*)	1%	200	1.4	170 typ	54	-40 to +125	SOT23-3
TPL710Fxx-5TR	2.4~6	Fixed (1.0, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6*)	1%	200	1.4	170 typ	54	-40 to +125	SOT23-5
TPL710Fxx-FR	2.4~6	Fixed (1.0, 1.2, 1.5*, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6*)	1%	200	1.4	170 typ	54	-40 to +125	DFN1X1-4
TPL720Fxx-3TR	2.4~6	Fixed (1.0*, 1.2*, 1.5*, 1.8, 2.5*, 2.8, 3.0, 3.3, 3.6*)	1%	400	1.4	350 typ	54	-40 to +125	SOT23-3
TPL720Fxx-5TR	2.4~6	Fixed (1.0*, 1.2, 1.5*, 1.8, 2.5*, 2.8, 3.0, 3.3, 3.6*)	1%	400	1.4	350 typ	54	-40 to +125	SOT23-5
TPL720Fxx-89TR	2.4~6	Fixed (1.0*, 1.2*, 1.5*, 1.8*, 2.5*, 2.8, 3.0, 3.3, 3.6*)	1%	400	1.4	350 typ	54	-40 to +125	SOT89-3

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低噪声 LDO

Low Noise LDO

Part Number	VIN (V)	Output Voltage (V)	Max Output Current (mA)	Noise (μVRMS)	PSRR @1kHz (dB)	Dropout Voltage @Max Output Current (mV)	Junction Temperature Range (°C)	Package
TPL9032xx-S5TR	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*)	300	8.6	81.9	150 max	-40 to +125	SOT23-5
TPL9032xx-DF1R	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*)	300	8.6	81.9	150 max	-40 to +125	1×1 DFN-4
TPL9032xx-WS1R	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*)	300	8.6	81.9	150 max	-40 to +125	WLCSP-4
TPL9032xx-S5TR-S	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*)	300	8.6	81.9	150 max	-40 to +125	SOT23-5
TPL9053AD-DF4R	1.7~5.5	Adjustable 0.6~5.3	500	5.7	89	280 max	-40 to +125	2×2 DFN-8
TPL9053AD-DF4R-S	1.7~5.5	Adjustable 0.6~5.3	500	5.7	89	280 max	-40 to +125	2×2 DFN-8
TPL910ADJ-DF6R	2.2~6.5	Adjustable 0.8~5.2	1000	24	65	500 max	-40 to +125	3×3 DFN-10
TPL910GADJ-DF6R-S	2.2~6.5	Adjustable 0.8~5.2	1000	24	65	500 max	-40 to +125	3×3 DFN-10
TPL910ADJA-DF6R	2.2~6.5	Adjustable 0.8~6	1000	4.5	80	500 max	-40 to +125	3×3 DFN-10
TPL910GADJA-DF6R-S	2.2~6.5	Adjustable 0.8~6	1000	4.5	80	500 max	-40 to +150	3×3 DFN-10
TPL910ADJQ-DF6R-S*	2.2~5.5	Adjustable 0.8~5	1000	10	80	500 max	-40 to +150	3×3 DFN-10
TPL920ADJ-QF7R	1.1~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	2000	6	70	280 max	-40 to +125	5×5 QFN-20
TPL920GADJ-QF7R-S	1.1~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	2000	6	70	280 max	-40 to +125	5×5 QFN-20
TPL9208AD-DF5R-S*	1.4~6.5	Adjustable 0.8~5.2	2000	6	70	280 max	-40 to +125	2.5×2.5 DFN-10
TPL9208AD-QF7R-S*	1.1~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	2000	6	70	280 max	-40 to +125	5×5 QFN-20
TPL930ADJ-QF6R	1.1~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	3000	6	70	300 max	-40 to +125	3.5×3.5 QFN-20
TPL930GADJ-QF6R-S	1.1~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	3000	6	70	300 max	-40 to +125	3.5×3.5 QFN-20
TPL930ADJ-FC2R-S*	1.1~6.5	Adjustable 0.8~5.2	3000	6	70	300 max	-40 to +125	2.2×2.5 QFN-12
TPL9305AD-QF6R-S*	1.1~6.5	Fixed 0.5~3.65; Adjustable 0.5~5.2	3000	6	70	300 max	-40 to +125	3.5×3.5 QFN-20
TPL9308AD-QF6R-S*	1.1~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	3000	6	70	300 max	-40 to +125	3.5×3.5 QFN-20

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VTT LDO

VTT LDO

Part Number	LDOIN Voltage (V)	IN Voltage (V)	Max Current Capability (mA)	DDR	Junction Temperature Range (°C)	Package
TPL51200-DF8R	1.1~3.5	2.375~5.5	±3000	DDR, DDR2, DDR3, DDR3L, Low Power DDR3 and DDR4	-40 to +125	3×3 DFN-10
TPL51200-DF8R-S	1.1~3.5	2.375~5.5	±3000	DDR, DDR2, DDR3, DDR3L, Low Power DDR3 and DDR4	-40 to +125	3×3 DFN-10
TPL51200G-DF8R-S	1.1~3.5	2.375~5.5	±3000	DDR, DDR2, DDR3, DDR3L, Low Power DDR3 and DDR4	-40 to +125	3×3 DFN-10
TPL51206-DFFR	1.0~3.5	3~5.5	±2000	DDR, DDR2, DDR3, DDR3L, Low Power DDR3 and DDR4	-40 to +125	2×2 DFN-10

宽输入电压范围 LDO

Wide Input LDO

Part Number	VIN (V)	Output Voltage (V)	Max Output Current (mA)	IQ (μA)	Dropout Voltage @Max Output Current (mV)	Noise (μVRMS)	PSRR @1kHz (dB)	Junction Temperature Range (°C)	Package
TPL810ADJ-5TR	3.6~24	Adjustable (1.2~15)	200	2	800 typ	70	65	-40 to +125	SOT23-5
TPL810Fxx-5TR	3.6~24	Fixed (3.0*, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT23-5
TPL810Uxx-5TR	3.6~24	Fixed (3.0*, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT23-5 (B)
TPL810Fxx-89TR	3.6~24	Fixed (2.8, 3.0, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT89-3
TPL810Fxx-3TR	3.6~24	Fixed (3.0, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT23-3
TPL820Fxx-5TR	3.6~42	Fixed (3.0*, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT23-5
TPL820Uxx-5TR	3.6~42	Fixed (3.0*, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT23-5 (B)
TPL820Fxx-89TR	3.6~42	Fixed (2.8, 3.0, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT89-3
TPL820Fxx-3TR	3.6~42	Fixed (3.0*, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT23-3
TPL820Fxx-ST4R	3.6~42	Fixed (3.0*, 3.3, 5.0)	200	2	800 typ	70	65	-40 to +125	SOT223-3
TPL8032AD-S5TR*	2.5~20	Adjustable (1.2~18)	300	95	450 typ	5.68	79	-40 to +125	SOT23-5
TPL8032xx-S5TR*	2.5~20	Fixed (1.5*, 1.8*, 2.1*, 2.5*, 2.7*, 2.8*, 2.9*, 3.0*, 3.3, 3.6*, 3.7*, 3.8*, 4.0*, 4.2*, 4.5*, 5.0)	300	95	450 typ	5.68	79	-40 to +125	SOT23-5
TPL8032AD-S5TR-S*	2.5~20	Adjustable (1.2~18)	300	95	450 typ	5.68	79	-40 to +125	SOT23-5
TPL8032xx-S5TR-S*	2.5~20	Fixed (1.5*, 1.8*, 2.1*, 2.5*, 2.7*, 2.8*, 2.9*, 3.0*, 3.3, 3.6*, 3.7*, 3.8*, 4.0*, 4.2*, 4.5*, 5.0)	300	95	450 typ	5.68	79	-40 to +125	SOT23-5
TPL8032AD-ES1R*	2.5~20	Adjustable (1.2~18)	300	95	450 typ	5.68	79	-40 to +125	ESOP8
TPL8032xx-ES1R*	2.5~20	Fixed (1.5*, 1.8*, 2.1*, 2.5*, 2.7*, 2.8*, 2.9*, 3.0*, 3.3*, 3.6*, 3.7*, 3.8*, 4.0*, 4.2*, 4.5*, 5.0*)	300	95	450 typ	5.68	79	-40 to +125	ESOP8
TPL8032xx-89TR*	2.5~20	Fixed (1.5*, 1.8*, 2.1*, 2.5*, 2.7*, 2.8*, 2.9*, 3.0*, 3.3*, 3.6*, 3.7*, 3.8*, 4.0*, 4.2*, 4.5*, 5.0*)	300	95	450 typ	5.68	79	-40 to +125	SOT89-3
TPL8032ADQ-ES1R-S*	2.5~20	Adjustable (1.2~18)	300	95	450 typ	5.68	79	-40 to +150	ESOP8
TPL8151AD-DF9R	2.75~29	Adjustable (1.25~VIN-VDP)	1500	-	1300 typ	30	72	-40 to +125	4×4 DFN-8
TPL8151AD-DF9R-S*	2.75~29	Adjustable (1.25~VIN-VDP)	1500	-	1300 typ	30	72	-40 to +125	4×4 DFN-8
TPL8151ADQ-ES1R-S*	2.75~29	Adjustable (1.25~VIN-VDP)	1500	-	1300 typ	30	72	-40 to +150	ESOP-8

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开关电源

SWITCHING POWER REGULATORS

Part Number	Description	VIN (V)	Output (V)	Max Output Current (A)	Switching Frequency (kHz)	Current Saving Mode	Control Mode	Temperature Range (°C)	Package
TPP00061*	100-V Input, 1-A, Synchronous Step-Down DC-DC Voltage Converter	4.5~100	1.225~100	1	Variable	PFM	Constant On-time	-40 to +125	ESOP8, DFN4X4-8, DFN3X3-8
TPP00062*	100-V Input, 1-A, Synchronous Step-Down DC-DC Voltage Converter	4.5~100	1.225~100	1	Variable	Forced PWM	Constant On-time	-40 to +125	ESOP8, DFN4X4-8, DFN3X3-8
TPP00064*	100-V Input, 1-A, Synchronous Step-Down DC-DC Voltage Converter	4.5~100	1.225~100	1	Variable	Forced PWM	Constant On-time	-40 to +125	ESOP8, DFN4X4-8, DFN3X3-8
TPP34927*	100-V Input, 1-A, Isolated Power Supply	4.5~100	1.225~100	1	Variable	Forced PWM	Constant On-time	-40 to +125	ESOP8, DFN4X4-8, DFN3X3-8
TPP60308*	60-V Input, 3.5-A, Non-Synchronous Step-Down DC-DC Voltage Converter	4.5~60	0.8~60	3.5	100-2200	Pulse Skip Mode	Peak Current Mode	-40 to +125	SOP8
TPP60508	60-V Input, 5-A, Non-Synchronous Step-Down DC-DC Voltage Converter	4.5~60	0.8~60	5	100-2200	PFM	Peak Current Mode	-40 to +125	DFN4X4-10
TPP362080*	36-V Input, 2-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	2	500	Pulse Skip Mode	Peak Current Mode	-40 to +125	SOT23-6
TPP362081*	36-V Input, 2-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	2	2200	Pulse Skip Mode	Peak Current Mode	-40 to +125	SOT23-6
TPP362082*	36-V Input, 2-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	2	500	Forced PWM	Peak Current Mode	-40 to +125	SOT23-6
TPP362083*	36-V Input, 2-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	2	2200	Forced PWM	Peak Current Mode	-40 to +125	SOT23-6
TPP363080*	36-V Input, 3-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	3	500	Pulse Skip Mode	Peak Current Mode	-40 to +125	SOT23-6
TPP363081*	36-V Input, 3-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	3	2200	Pulse Skip Mode	Peak Current Mode	-40 to +125	SOT23-6
TPP363082*	36-V Input, 3-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	3	500	Forced PWM	Peak Current Mode	-40 to +125	SOT23-6
TPP363083*	36-V Input, 3-A Synchronous Step-Down DC-DC Voltage Regulator	4.5~36	0.6~36	3	2200	Forced PWM	Peak Current Mode	-40 to +125	SOT23-6
TPP206080*	17-V Input, 6-A, Synchronous Step-Down DC-DC Voltage Converter	4.5~17	0.6~17	6	100-2500	Pulse Skip Mode	Peak Current Mode	-40 to +125	DFN3.5X3.5-14
TPP206081*	17-V Input, 6-A, Synchronous Step-Down DC-DC Voltage Converter	4.5~17	0.8~17	6	100-2500	Pulse Skip Mode	Peak Current Mode	-40 to +125	DFN3.5X3.5-14
TPP2020	17-V Input, 2-A, Synchronous Step-Down DC-DC Voltage Converter	4.5~17	0.8~17	2	Variable	Pulse Skip Mode	Constant On-time	-40 to +125	SOT23-6
TPP05608x*	2.8V-6V Vin, 6-A, Synchronous Step-Down DC-DC Voltage Regulator	2.8~6	0.6~6	6	200-2000	Forced PWM	Peak Current Mode	-40 to +125	DFN3X3-16
TPQ05100x*	0.9 - 5.5V Input, 1-A, Ultra-low Quiescent Current Synchronous Step-Up DC-DC Voltage Converter	0.9~5.5	1.8~5.5	1	Variable	Pulse Skip Mode	Peak Current Mode	-40 to +125	DFN2X2-6, WLCSP, SOT23-6
TPQ05108x*	0.9 - 5.5V Input, 1-A, Ultra-low Quiescent Current Synchronous Step-Up DC-DC Voltage Converter with integrated LDO / Power Switch	0.9~5.5	1.8~5.5	1	Variable	Pulse Skip Mode	Peak Current Mode	-40 to +125	DFN1.5X1.5-6

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电源监控和复位芯片

VOLTAGE SUPERVISORS AND RESET ICS

Part Number	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	Reset Threshold (V)	Temperature Range (°C)	Package
TPV803	2.2	Yes	—	—	—	200	—	Low Active	Open Drain	1.58*, 1.67*, 2.19*, 2.32*, 2.63*, 2.93, 3.08*, 4.38*, 4.63*	-40 to +125	SOT23G-3
TPV809	2.2	Yes	—	—	—	200	—	Low Active	Push-Pull	1.58*, 1.67*, 2.19*, 2.32*, 2.63, 2.93, 3.08, 4.38, 4.63*	-40 to +125	SOT23G-3, SOT23-3, SOT363
TPV810	2.2	Yes	—	—	—	200	—	High Active	Push-Pull	1.58*, 1.67*, 2.19*, 2.32*, 2.63*, 2.93, 3.08*, 4.38*, 4.63*	-40 to +125	SOT23G-3
TPV811	2.2	Yes	Yes	—	—	200	—	Low Active	Push-Pull	1.58*, 1.67*, 2.19*, 2.32*, 2.63, 2.93, 3.08*, 4.38*, 4.63*	-40 to +125	SOT143
TPV821	2.2	Yes	Yes	—	—	200	—	Low Active	Push-Pull	1.58*, 1.67*, 2.19*, 2.32*, 2.63, 2.93*, 3.08*, 4.38*, 4.63*	-40 to +125	SOT143
TPV6823	2.2	Yes	Yes	Yes	—	200	1.6	Low Active	Push-Pull	1.58, 1.67*, 2.19, 2.32*, 2.63*, 2.93, 3.08*, 4.38*, 4.63*	-40 to +125	SOT23-5
TPV706	4	Yes	Yes	Yes	Yes	200	1.6	Low Active	Push-Pull	1.58*, 1.67*, 2.19*, 2.32*, 2.63, 2.93, 3.08*, 4.38*, 4.63*	-40 to +125	SOP8
TPV708	4	Yes	Yes	—	Yes	200	—	Low Active, High Active	Push-Pull	1.58*, 1.67*, 2.19*, 2.32*, 2.63*, 2.93*, 3.08*, 4.38, 4.63*	-40 to +125	SOP8
TPV8308	1.5	Yes	Yes	—	—	Programmable	—	Low Active	Open Drain	Adj, 0.4 - 5.00	-40 to +125	SOT23-6
TPV8348	1.5	Yes	Yes	—	—	Programmable	—	High Active	Push-Pull	Adj, 0.4 - 5.00	-40 to +125	DFN1.5X1-6
TPV8368Q	6.2	Yes	Yes	—	—	Programmable	—	High Active	Push-Pull	Adj, 0.4 - 5.00	-40 to +125	SOT23-6

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电源时序控制

POWER SEQUENCER

Part Number	VCC (V)	Timing Control	Power-up Sequence Control	Power-down Sequence Control	Open-Drain Output	Output Voltage (V)	Channels	Junction Temperature Range (°C)	Package
TPK1031	2.7 ~ 5.5	Adjustable	FLAG1->FLAG2->FLAG3	FLAG3->FLAG2->FLAG1	Yes	0 ~ VCC	3	-40 to +125	MSOP-8
TPK1032A	2.7 ~ 5.5	11ms, 30ms, 60ms, 120ms, 2ms, 16ms	FLAG1->FLAG2->FLAG3	FLAG3->FLAG2->FLAG1	Yes	0 ~ VCC	3	-40 to +125	SOT23-6

电压基准

VOLTAGE REFERENCE

分流型电压基准

Shunt Voltage Reference

Part Number	Output Voltage (V)	Isink (min)(mA)	Isink (max)(mA)	Accuracy (max)(%)	Tempco (max)(ppm)	10 to 10kHz Voltage Noise (2.5Vout)(Typ)(μVrms)	Output Capacitor Load (μF)	Package
TPR6040Fxx-S3TR	2.048, 2.5, 3.0, 3.3*, 4.096*, 5.0*, 8.192*, 10.0*	0.15	15	0.2	50	90	Any load	SOT23-G
TPR6040F20-S3TR-S	2.048, 2.5, 3.0*, 3.3*, 4.096, 5.0, 8.192*, 10.0*	0.15	15	0.1	25	90	Any load	SOT23-G

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分流型电压基准

Shunt Voltage Reference

Part Number	Output Voltage (V)	Isink (min)(mA)	Isink (max)(mA)	Accuracy (max)(%)	Tempco (max)(ppm)	Package
TPR431A-S3TR*	VREF to 36	1	80	1	50	SOT23-G
TPR431B-S3TR	VREF to 36	1	80	0.5	50	SOT23-G
TPR432A-S3TR*	VREF to 36	1	80	1	50	SOT23-G
TPR432B-S3TR	VREF to 36	1	80	0.5	50	SOT23-G

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串联型电压基准

Series Voltage Reference

Part Number	Output Voltage (V)	Vin (max)(mA)	Vin (min)(mA)	Iq (max)(μA)	Accuracy (max)(%)	Tempco (max)(ppm)	0.1 to 10Hz Output Voltage Noise (2.5Vout)(Typ)	Line Regulation (max)(ppm/V)	Load Regulation (max)(ppm/mA)	Output Capacitor Load (μF)	Package
TPR33xx-S3TR	1.25, 2.048, 2.5, 3.0, 3.3, 4.096	5.5	min(Vref+0.05, 2.1)	180	0.15	30	50	50	20	0.1 to 10	SOT23-G
TPR33xx-QF11R-S	1.25, 2.048*, 2.5, 3.0, 3.3*, 4.096*	5.5	min(Vref+0.05, 2.1)	180	0.15	30	50	50	20	0.1 to 10	QFN1.5X1.5-8
TPR35xx-S3TR	1.25, 2.048, 2.5, 3.0, 3.3, 4.096	5.5	min(Vref+0.05, 2.1)	210	0.2	50	50	50	20	0.1 to 10	SOT23-G

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电池管理

BATTERY MANAGEMENT

线性充电芯片

Linear Charger

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

电池保护

Battery Protector

Part Number	Description	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	High Accuracy Single Cell Primary Protector	6	4.495	2.350	-21.0	21.0	30.0	80.0	No	DFN1.4X1.8-6
TPB71703VO	High Accuracy Single Cell Primary Protector	6	4.550	2.100	-29.0	21.0	30.0	80.0	No	DFN1.4X1.8-6
TPB71703VP	High Accuracy Single Cell Primary Protector	6	4.575	2.350	-24.0	10.5	16.5	42.0	No	DFN1.4X1.8-6
TPB71703VT	High Accuracy Single Cell Primary Protector	6	4.625	2.100	-27.0	10.5	16.5	42.0	No	DFN1.4X1.8-6
TPB7462GGA	4-s High Accuracy Secondary Hardware Protector with CTL and LDO	28	4.500	2.30	—	—	—	—	—	DFN2X2-8

马达驱动 MOTOR DRIVERS

高可靠性、高性价比、高效率马达驱动
High-Reliability,Cost-Effective and High-Efficient Motor Drivers

Part Number	Description	VIN (V)	Rdson (H+L) (Ω)	Max Output Current (A)	# of Half Bridges	Temperature Range (°C)	Package
TPM8837C	1-A H-Bridge Driver, Protection, Sleep	2.5~17	0.85	1	2	-40 to +125	DFN-8
TPM16050	0.5-A H-Bridge Driver, Protection	3~17	0.85	0.5	2	-40 to +125	SOT23-6
TPM8870*	40-V 3.5-A H-Bridge Driver with integrated current sense, Protection	4.5~36	0.7	3.5	2	-40 to +125	ESOP8
TPM8876*	40-V 3.5-A H-Bridge Driver with integrated current sense, Protection	4.5~36	0.7	3.5	2	-40 to +125	ESOP16, ESOP8, DFN3X3-16

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低边驱动阵列 Low-side Driver Array

Part Number	Description	VIN (V)	# of Channel	Max Output Current (A)	Max Total Current (A)	Temperature Range (°C)	Package
TPM2003	7-Ch Lowside Driver Array, Over Temperature Protection, Under-Voltage protection, I/O inputs	5~50	7	0.5	2	-40 to +125	SOP-16、TSSOP-16
TPM2803	8-Ch Lowside Driver Array, Over Temperature Protection, Under-Voltage Protection, I/O inputs	5~50	8	0.5	2	-40 to +125	SOP-18
TPM0596	7-Ch Lowside Driver Array, Over Temperature Protection, Under-Voltage Protection, Register Serial Interface	5~50	8	0.5	2	-40 to +125	TSSOP-16
TPM2001	4-Ch Lowside Driver Array, Over Temperature Protection, Under-Voltage Protection, I/O inputs	5~50	4	1	2	-40 to +125	MSOP-10

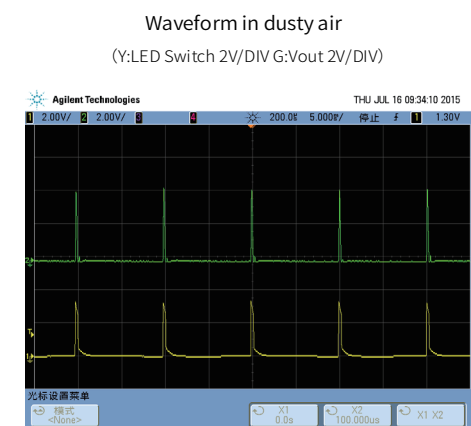
门级驱动 Gate Drivers

Part Number	Description	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
TPM27523	25-V, 5-A Dual Channel Low-side Gate Driver	4.5~25	2	5	-5~20	-40 to +150	7/6	13	< 1	SOP-8、EMSOP-8、DFN2X2-8、DFN3X3-8
TPM27524	25-V, 5-A Dual Channel Low-side Gate Driver	4.5~25	2	5	-5~20	-40 to +150	7/6	13	< 1	SOP-8、EMSOP-8、DFN2X2-8、DFN3X3-8
TPM27525*	25-V, 5-A Dual Channel Low-side Gate Driver	4.5~25	2	5	-5~20	-40 to +150	7/6	13	< 1	SOP-8、EMSOP-8、DFN2X2-8、DFN3X3-8
TPM27526*	25-V, 5-A Dual Channel Low-side Gate Driver	4.5~25	2	5	-5~20	-40 to +150	7/6	13	< 1	SOP-8、EMSOP-8、DFN2X2-8、DFN3X3-8
TPM27517	25-V, 5-A Single Channel Low-side Gate Driver	4.5~25	1	5	-5~20	-40 to +150	7/6	13	< 1	SOT23-5
TPM44273	25-V, 5-A Single Channel Low-side Gate Driver	4.5~25	1	5	-5~20	-40 to +150	7/6	13	< 1	SOP-8、EMSOP-8、DFN2X2-8、DFN3X3-8
TPM2025	5-V, 7-A Dual Channel Ultra-Highspeed GaN Predriver	4.75 ~ 5.25	2	7	0~5	-40 to +150	0.45 / 0.45	2	0.05	QFN2X2-10
TPM2025Q*	Automotive grade 5-V, 7-A Dual Channel Ultra-Highspeed GaN Predriver	4.75 ~ 5.25	2	7	0~5	-40 to +150	0.45 / 0.45	2	0.05	QFN2X2-10

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TPA8801B 是 3PEAK 公司推出的一款高性能传感器调理电路。TPA8801B 主要应用于 PM2.5 气体尘埃检测，作为一款高集成度、高灵敏度的模拟前端芯片，外围仅需搭配一颗光电二极管、一颗红外发光二极管即可组成 PM2.5 检测电路，相比传统的 PM2.5 检测方式，3PEAK 方案具有高精密、低功耗，外围电路简单、高性价比等优势。

TPA8801B is an analog front end sensor conditioning product mainly used for the detection of PM2.5 dust. With its high integration level, a dust detection system such as PM2.5 detection can be easily implemented with an external photodiode, an infrared light-emitting diode and a few capacitors and resistors. Compared to traditional dust detection systems, TPA8801B has higher precision, lower power and significantly reduced total system cost.



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