

聚焦高性能模拟芯片

Focus on High Performance Analog IC

Analog Products Selection

模拟产品选型

Rev.13 2021



3PEAK WeChat



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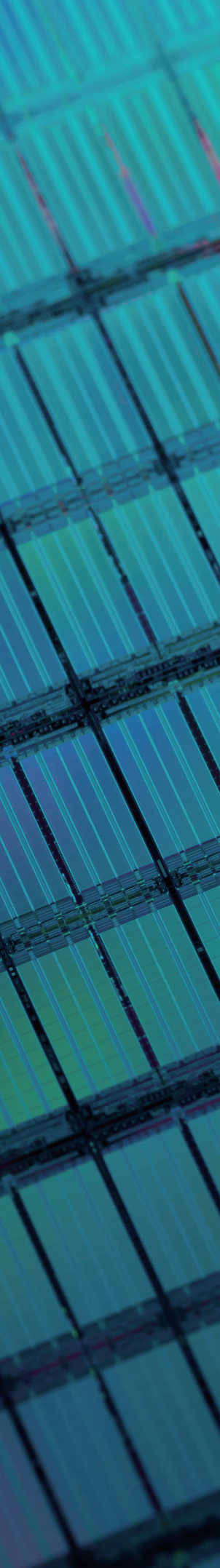
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运算放大器

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 ($\mu\text{V}/^{\circ}\text{C}$)	eN @1kHz ($\text{nV}/\sqrt{\text{Hz}}$)	IBIAS (μA)	Rail-Rail	Package
TP2111	1	1.8~6.0	10kHz	300nA	500nA	N/A	1.5	6mV/us	0.4	265	1	In/Out	5-Pin SC70、5-Pin SOT23
TP2112	2	1.8~6.0	10kHz	300nA	500nA	N/A	1.5	6mV/us	0.4	265	1	In/Out	8-Pin MSOP、8-Pin SOIC
TP2114	4	1.8~6.0	10kHz	300nA	500nA	N/A	1.5	6mV/us	0.4	265	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP2121	1	1.8~6.0	18kHz	600nA	800nA	N/A	1.5	10mV/us	0.5	170	1	In/Out	5-Pin SC70、5-Pin SOT23
TP2122	2	1.8~6.0	18kHz	600nA	800nA	N/A	1.5	10mV/us	0.5	170	1	In/Out	8-Pin MSOP、8-Pin SOIC
TP2124	4	1.8~6.0	18kHz	600nA	800nA	N/A	1.5	10mV/us	0.5	170	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP1511	1	2.1~6.0	150kHz	4uA	5.6uA	N/A	3.0	0.09V/us	0.6	95	1	In/Out	5-Pin SC70、5-Pin SOT23
TP1512	2	2.1~6.0	150kHz	4uA	5.6uA	N/A	3.0	0.09V/us	0.6	95	1	In/Out	8-Pin SOIC、8-Pin MSOP
TP1514	4	2.1~6.0	150kHz	4uA	5.6uA	N/A	3.0	0.09V/us	0.6	95	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP1561	1	2.1~6.0	3.8MHz	130uA	190uA	N/A	3.0	3.6V/us	0.6	27	1	In/Out	5-Pin SC70、5-Pin SOT23
TP1562	2	2.1~6.0	3.8MHz	130uA	190uA	N/A	3.0	3.6V/us	0.6	27	1	In/Out	8-Pin SOIC、8-Pin MSOP
LMV321B	1	2.5~5.5	1MHz	80uA	130uA	N/A	3.5	0.7V/us	2	30	1	In/Out	5-Pin SC70、5-Pin SOT23
LMV358B	2	2.5~5.5	1MHz	80uA	130uA	N/A	3.5	0.7V/us	2	30	1	In/Out	8-Pin SOIC、8-Pin MSOP
LMV324B	4	2.5~5.5	1MHz	80uA	130uA	N/A	3.5	0.7V/us	2	30	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP6001	1	2.5~6.0	1.3MHz	80uA	130uA	N/A	3	0.7V/us	1	27	1	In/Out	6-Pin SOT23、8-Pin MSOP
TP6002	2	2.5~6.0	1.3MHz	80uA	130uA	N/A	3	0.7V/us	1	27	1	In/Out	8-Pin SOIC、8-Pin MSOP、8-Pin TSSOP
TP6004	4	2.5~6.0	1.3MHz	80uA	130uA	N/A	3	0.7V/us	1	27	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP1561AL1	1	2.5~6.0	6MHz	600uA	900uA	N/A	3	4.5V/us	1	19	1	In/Out	5-Pin SC70、5-Pin SOT23
TP1562AL1	2	2.5~6.0	6MHz	600uA	900uA	N/A	3	4.5V/us	1	19	1	In/Out	8-Pin SOIC、8-Pin MSOP、8-Pin TSSOP
TP1564AL1	4	2.5~6.0	6MHz	600uA	900uA	N/A	3	4.5V/us	1	19	1	In/Out	14-Pin SOIC、14-Pin TSSOP
TP321	1	2.1~6.0	1MHz	45uA	87uA	N/A	5.0	1.0V/us	2.0	45	10	In/Out	5-Pin SC70、5-Pin SOT23
TP358	2	2.1~6.0	1MHz	45uA	87uA	N/A	5.0	1.0V/us	2.0	45	10	In/Out	8-Pin SOIC、8-Pin MSOP
TP324	4	2.1~6.0	1MHz	45uA	87uA	N/A	5.0	1.0V/us	2.0	45	10	In/Out	14-Pin SOIC、14-Pin TSSOP
LMV321TP	1	2.1~6.0	1.27MHz	40uA	51uA	N/A	3.5	0.9V/us	0.6	39	1	In/Out	5-Pin SC70、5-Pin SOT23
LMV358TP	2	2.1~6.0	1.27MHz	40uA	51uA	N/A	3.5	0.9V/us	0.6	39	1	In/Out	8-Pin SOIC、8-Pin MSOP
LMV324TP	4	2.1~6.0	1.27MHz	40uA	51uA	N/A	3.5	0.9V/us	0.6	39	1	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)(μ A)	IQ (Max.) (per CH)(μ A)	CMRR (dB)	VOS (max)(μ V)	Slew Rate (V/ μ s)	VOS TC (μ V/ $^{\circ}$ C)	eN @1kHz (nV/ $\sqrt{}$ Hz)	IBIAS (pA)	Rail-Rail	Package
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

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/ μ s)	VOS TC (μ V/ $^{\circ}$ C)	VN @ 0.1Hz to 10Hz(μ VPP)	eN @1kHz (nV/ $\sqrt{}$ Hz)	IBIAS (pA)	Rail-Rail	Package
TP2331	1	2.2~5.5	1.6	0.19	130	50 μ V	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 μ V	0.92	1	3.2	13	0.3	In/Out	8-Pin MSOP、8-Pin SOIC
TP2334	4	2.2~5.5	1.6	0.19	130	50 μ V	0.92	1	3.2	13	0.3	In/Out	14-Pin SOIC、14-Pin TSSOP
TP2311	1	2.2~5.5	10	1.4	130	50 μ V	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 μ V	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 μ V	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 μ V	19	1	2.0	7.3	0.3	In/Out	5-Pin SC70、5-Pin SOT23
TP2302	2	2.2~5.5	20	3.5	130	50 μ V	19	1	2.0	7.3	0.3	In/Out	8-Pin MSOP、8-Pin SOIC
TP2304	4	2.2~5.5	20	3.5	130	50 μ V	19	1	2.0	7.3	0.3	In/Out	14-Pin SOIC、14-Pin TSSOP
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	2.0	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	2.0	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	2.0	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)	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	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

*： With Shutdown Feature

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)	VOSTC (μV/° C)	Temp Range(° C)	Package
TP2261	1	3~36	3.5	13	0.0005	28	1	25	2.0	2.0	- 40 to +125	5-Pin SOT23、8-Pin SOIC
TP2262	2	3~36	3.5	13	0.0005	28	1	25	2.0	2.0	- 40 to +125	8-Pin SOIC、8-Pin MSOP
TP2264	4	3~36	3.5	13	0.0005	28	1	25	2.0	2.0	- 40 to +125	14-Pin SOIC、14-Pin TSSOP
TP2581	1	3~36	10	8	0.0005	35	4	25	3.0	2.0	- 40 to +125	5-Pin SOT23
TP2582	2	3~36	10	8	0.0005	35	4	25	3.0	2.0	- 40 to +125	8-Pin SOIC、8-Pin MSOP
TP2584	4	3~36	10	8	0.0005	35	4	25	3.0	2.0	- 40 to +125	14-Pin SOP、14-Pin TSSOP
LM321A	1	3~36	0.9	0.5	0.001	70	0.2	60	3.0	70	- 40 to +125	5-Pin SOT23
LM358A	2	3~36	0.9	0.5	0.001	70	0.2	60	3.0	70	- 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	3.0	70	- 40 to +125	14-Pin SOP、14-Pin TSSOP
LM2904A	2	3~36	0.9	0.5	0.001	70	0.2	60	3.0	70	- 40 to +125	8-Pin SOP、8-Pin MSOP
LM2902A	4	3~36	0.9	0.5	0.001	70	0.2	60	3.0	70	- 40 to +125	14-Pin SOP、14-Pin TSSOP

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/ √ Hz)	IBIAS (pA)	Slew Rate (V/μs)	CMRR (dB)	PSRR (dB)	AVOL (dB)	Rail-Rail	Package
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
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
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	-	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, 10uV 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

电流信号检测放大器
CURRENT SENSING AMPLIFIERS

Part Number	CH	VDD (V)	Common Mode Voltage (V)	GBWP (kHz)	IQ (uA, Typ.)	Ib (uA, Typ.)	VOS (uV, max)	Slew Rate (V/us)	VOS TC (uV/° C, Max)	Gain (V/V)	Gain Drift (ppm/°C , Max)	Rail-Rail	Internal Comparator	Package
TP181A1	1	2.7~30	-0.3~36	48	120	35	100	0.6	0.5	50	10	Out	N/A	6-Pin SC70
TP181A2	1	2.7~30	-0.3~36	30	120	35	100	0.6	0.5	100	10	Out	N/A	6-Pin SC70
TP181A3	1	2.7~30	-0.3~36	20	120	35	100	0.6	0.5	200	10	Out	N/A	6-Pin SC70
TP182A1	1	2.7~30	-0.3~36	48	120	35	50	0.6	0.5	50	10	Out	N/A	6-Pin SC70
TP182A2	1	2.7~30	-0.3~36	30	120	35	50	0.6	0.5	100	10	Out	N/A	6-Pin SC70
TP182A3	1	2.7~30	-0.3~36	20	120	35	30	0.6	0.5	200	10	Out	N/A	6-Pin SC70
TP182A4	1	2.7~30	-0.3~36	20	120	35	30	0.6	0.5	500	10	Out	N/A	6-Pin SC70
TP1285T	2	3.0~5.5	3.0~76	60	750	65	100	0.6	0.5	20	10	Out	N/A	8-Pin MSOP
TPA1295T*	1	3.0~18	0~70	500	1000	100	100	20	0.5	20	5	Out	N/A	8-Pin SOP
TPA1295F*	1	3.0~18	0~70	500	1000	100	100	20	0.5	50	5	Out	N/A	8-Pin SOP
TPA1295H*	1	3.0~18	0~70	500	1000	100	100	20	0.5	100	5	Out	N/A	8-Pin SOP
TPA2296T	1	3.0~18	0~70	500	1000	100	500	20	0.5	20	5	Out	N/A	5-Pin SOT23
TPA2296F*	1	3.0~18	0~70	500	1000	100	500	20	0.5	50	5	Out	N/A	5-Pin SOT23
TPA2296H	1	3.0~18	0~70	500	1000	100	500	20	0.5	100	5	Out	N/A	5-Pin SOT23、6-Pin SOT23
TPA2295CT	1	3.0~18	0~70	500	1000	100	500	20	0.5	20	5	Out	1ch	8-Pin MSOP
TPA2295CF	1	3.0~18	0~70	500	1000	100	500	20	0.5	50	5	Out	1ch	8-Pin MSOP
TPA2295CH	1	3.0~18	0~70	500	1000	100	500	20	0.5	100	5	Out	1ch	8-Pin MSOP

Note: With Mark "*"Product, the Sample and Delivery Time is about 6 Months

模拟开关 ANALOG SWITCH

Part Number	CH	Switch Config	VDD (V)	VEE (V)	Input Range	BW (MHz)	IQ (Typ.) (1 Channel)(uA)	Ron (Ω)	Leakage Current(nA)	VIH Min(V)	VIL Max(V)	t _{ON} (ns)	t _{OFF} (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	Cross Reference
TPF632A	2.7V~5.5V Power Supply, Differential Input , 3V _{RMS} or 2V _{RMS} Output	TSSOP-14	SGM8903, SGM89000, DIO2112H, DIO2103, DRV632, DRV603, DIO2133
TPF632C	2.7V~5.5V Power Supply, Differential Input , 3V _{RMS} or 2V _{RMS} Output	TSSOP-14	SGM8903, SGM89000, DIO2112H, DIO2103, DRV632, DRV603, DIO2133
TPF605A	2.7V~5.5V Power Supply, Single End Input , 3V _{RMS} or 2V _{RMS} Output	MSOP-10-EP	SGM8905, DIO2125
TPF605C	2.7V~5.5V Power Supply, Single End Input , 3V _{RMS} or 2V _{RMS} Output	MSOP-10-EP	SGM8905, DIO2125
TPF607A	2.7V~5.5V Power Supply, Single End Input , 3V _{RMS} or 2V _{RMS} Output , None UVP	MSOP-10	SGM8904, DIO2124

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 Drive	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 Drive	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 Drive	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, 46uA, RRI, Push-Pull Output Comparator	1	1.8~5.5	46 uA	58 uA	68 ns	72 ns	3	6	Push-Pull	5-Pin SC70、5-Pin SOT23
TP1942	Dual, 68ns, 1.8V, 46uA, RRI, Push-Pull Output Comparator	2	1.8~5.5	46 uA	58 uA	68 ns	72 ns	3	6	Push-Pull	8-Pin SOIC
TP1944	Quad, 68ns, 1.8V, 46uA, RRI, Push-Pull Output Comparator	4	1.8~5.5	46 uA	58 uA	68 ns	72 ns	3	6	Push-Pull	14-Pin SOIC
TP1946	Dual, 70ns, 1.8V, 49uA, RRIO, Open Drain Output Comparator	2	1.8~5.5	49 uA	60 uA	-	70 ns	3	6	Open Drain	8-Pin SOIC
TP1948	Quad, 70ns, 1.8V, 49uA, RRIO, Open Drain Output Comparator	4	1.8~5.5	49 uA	60 uA	-	70 ns	3	6	Open Drain	14-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, 7 ns, 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 uA	70 uA	-	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 uA	70 uA	-	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
LM331B	Single Differential Comparator	1	2.5~36	0.15 mA	0.3 mA	-	2 μs	3.5	-	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
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

接口芯片
INTERFACE

Part Number	Product Type	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	Operating Temperature Range(° C)	Package
TPT3232E	RS232	RS232, 2Tx/Rx, Enhance ESD Protection	2	2	3.0	5.5	250	15	8	12kv	-40 to +125	16-Pin SOP、16-Pin TSSOP、16-Pin SSOP
TPT3122EH	RS232	RS232, 1.8V I/O, 2Tx/Rx, Enhance ESD Protection	2	2	3.0	5.5	1000	2	8	12kv	-40 to +125	24-Pin QFN
TP8485E	RS485	Half Duplex, RS485	1	1	3.0	5.5	250	0.93	18	Yes	-40 to +125	8-Pin SOIC、8-Pin MSOP
TPT485N	RS485	Half Duplex, RS485, Bus-Polarity Correcting	1	1	3.0	5.5	500	0.95	18	12kv	-40 to +125	8-Pin SOIC
TPT487	RS485	Half Duplex, RS485, High Reliability	1	1	3.0	5.5	500	0.75	18	15kv	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT481	RS485	Half Duplex, RS485 High Speed, High Reliability	1	1	3.0	5.5	20,000	2.7	18	15kv	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT4031	RS422	4 Tx, RS422 High Speed	4	0	3.0	5.5	50,000	0.05	18	9	-40 to +125	16-Pin SOIC、16-Pin DFN、16-Pin TSSOP
TPT4032	RS422	4 Rx, RS422 High Speed	0	4	3.0	5.5	50,000	0.05	18	10	-40 to +125	16-Pin SOIC、16-Pin DFN、16-Pin TSSOP
TPT75176H	RS485	Half Duplex, RS485 High Speed, High Reliability	1	1	3.0	5.5	10,000	2.2	15	15kv	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT75176A	RS485	Half Duplex, RS485 High Speed	1	1	3.0	5.5	5,000	5	12	Yes	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT75176B	RS485	Half Duplex, RS485 High Speed	1	1	3.0	5.5	10,000	5	12	Yes	-40 to +125	8-Pin SOIC、8-Pin DFN、8-Pin MSOP
TPT4181	RS485	Half Duplex, RS485 High Speed, 1.8V I/O	1	1	3.0	5.5	20,000	2.2	15	15kv	-40 to +125	10-Pin DFN
TPT9H221	MLVDS	Half Duplex, MLVDS Type2	1	1	3.0	3.6	200,000	24	8	Yes	-40 to +85	8-Pin SOIC
TPT9H111	MLVDS	Half Duplex, MLVDS Type1	1	1	3.0	3.6	100,000	24	8	Yes	-40 to +85	8-Pin SOIC
TPT9L484	MLVDS	LVDS, 4Rx	0	4	3.0	3.6	400,000	20	8	Yes	-40 to +85	16-Pin TSSOP
TPT29306	I2C level shift	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	I2C level shift	Level Shift and Redriver	1	1	1.2	5.5	1,000	15	7	/	-40 to +125	8-Pin MSOP、8-Pin SOP
TPT29511A	I2C level shift	Hot-swap I2C-BUS buffer	1	1	2.35	5.5	1,000	6	7	/	-40 to +125	8-Pin MSOP、8-Pin SOP
TPT29555	I2C level shift	I2C to 16 bit GPIO	2	16	1.65	5.5	400	0.03	4	/	-40 to +85	24-Pin TSSOP、24-Pin QFN4×4
TPT29545	I2C level shift	1:4 I2C Switch	1	4	2.5	5.5	400	0.03	3.5	/	-40 to +85	24-Pin TSSOP、24-Pin QFN4×4
TPT29548	I2C level shift	1:8 I2C Switch	1	8	2.5	5.5	400	0.03	3.5	/	-40 to +85	20-Pin TSSOP
TPT1051V	CAN	3.3V VIO, CAN FD, 30V Common-mode Voltage	1	1	4.5	5.5	5,000	50	8	/	-40 to +125	8-Pin SOIC、8-Pin DFN
TPT7720	Isolator	150Mbps, 150kv/us CMTI	2	2	2.25	5.5	150,000	3	6	/	-40 to +125	8-Pin SOIC、16-Pin WSOP

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 (uA/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
TPC116S8U	16	2.7~5.5	8	±16	±1	±30	80	±0.3	0~Vref	2	-40 to +125	16-Pin TSSOP、 16-Pin QFN

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	Compatible Products
3PD9708E	8	125	1	Internal, 1.10V	0.25	0.25	70	2.7~5.5	175	TSSOP-28	AD9708, DAC908, THS5641A
3PD5651E	10	125	1	Internal, 1.10V	0.5	0.25	79	2.7~5.5	175	TSSOP-28	THS5651A,DAC900, AD9760, AD9750

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	Compatible Products
3PA9280	8	32	1	Parallel	0~2	Internal	0.2	49	2.7~5.5	85	TSSOP-28	AD9280
3PA1030	10	50	1	Parallel	0~2	Internal	0.3	56.5	2.7~5.5	84	TSSOP-28	THS1030, THS1040, AD9200, AD9203

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	LCSP-16 3×3、WLSP-16 2×2

线性稳压电源

VOLTAGE LINEAR REGULATOR

通用型 LDO

General Purpose LDO with Low Dropout Voltage and High PSRR

Part Number	VIN (V)	Output Voltage (V)	Accuracy	IQ (uA.)	Max Output Current (mA)	Dropout Voltage @Max Output Current (mV)	PSRR @1KHz (dB)	Junction Temperature Range(°C)	Package
TPL730	2.4~5.5	1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3, Adjustable	1%	49	300	200	60	-40 to +125	SOT23-5、SC70-5、1×1 DFN-4
TPL740	2.4~5.5	1.2, 1.8, 2.5, 2.8, 3.0, 3.3, Adjustable	1%	49	500	300	60	-40 to +125	SOT23-5、SOT-89

低压差、低静态功耗、高电源纹波抑制比的 LDO

Low Dropout Voltage, Low Quiescent Current and High PSRR LDO

Part Number	VIN (V)	Output Voltage	Accuracy	IQ (uA.)	Max Output Current (mA)	Dropout Voltage @Max Output Current (mV)	PSRR @1KHz (dB)	Junction Temperature Range(°C)	Package
TPL5031	1.5~5.5	0.8V~3.6V, 0.1V/Step	1%	45	300	150 typ	70	-40 to +125	SOT23-5、1×1 DFN-4

低静态功耗 LDO

Low Quiescent Current LDO

Part Number	VIN (V)	Output Voltage (V)	Accuracy	Max Output Current (mA)	IQ (uA.)	Dropout Voltage @Max Output Current (mV)	PSRR @1KHz (dB)	Junction Temperature Range(°C)	Package
TPL710	2.4~6	1.0, 1.2, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6	1%	200	1	250	50	-40 to +125	SOT23-3、SOT23-5、1×1 DFN-4
TPL720	2.4~6	1.0, 1.2, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6	1%	400	1	500	50	-40 to +125	SOT23-3、SOT23-5、SOT-89、1×1 DFN-4

低噪声 LDO

Low Noise LDO

Part Number	VIN (V)	Output Voltage (V)	Max Output Current (mA)	Noise (uVRMS.)	PSRR @1KHz (dB)	Dropout Voltage @Max Output Current (mV)	Junction Temperature Range(°C)	Package
TPL9032	1.7~5.5	Fixed: 0.9~5	300	8.6	81.9	150	-40 to +125	SOT23-5、1×1 DFN-4、0.65×0.65 WLCSP-4
TPL9052	1.75~5.5	Fixed: 0.9~5	500	8.6	82	300	-40 to +125	SOT23-5、1×1 DFN-4、0.65×0.65 WLCSP-4
TPL9053	1.7~5.5	Adjustable: 0.6~5.3	500	5.7	89	280	-40 to +125	2×2 DFN-8
TPL910	2.2~6.5	Adjustable 0.8~5.2	1000	24	65	500	-40 to +125	3×3 DFN-10
TPL920	1.1~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	2000	6	70	280	-40 to +125	5×5 QFN-20
TPL930	1.4~6.5	Fixed 0.8~3.95; Adjustable 0.8~5.2	3000	6	70	300	-40 to +125	3.5×3.5 QFN-20

VTT LDO

VTT LDO

Part Number	LDOIN Voltage (V)	IN Voltage (V)	Max Current Capability (mA)	DDR	Junction Temperature Range (°C)	Package
TPL51200	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	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)	Accuracy	IQ (uA)	Dropout Voltage @Max Output Current (mV)	PSRR @1KHz (dB)	Junction Temperature Range(°C)	Package
TPL810	3.6~24	3.0, 3.3, 3.7, 5.0, Adj(1.2-15)	200	1%	2	800	65	-40 to +125	SOT-89、SOT23-3、SOT23-5
TPL820	3.6~42	3.0, 3.3, 3.7, 5.0	200	1%	2	800	65	-40 to +125	SOT-89、SOT23-3、SOT23-5、SOT223-3

小尺寸封装的产品列表

Small Size Package

Package	Package Size(mm×mm)	Part Number	Output Voltage (V)	VIN (V)	Max Output Current (mA)	Product Description
DFN-4	1×1	TPL730	1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3	2.4 - 5.5	300	300mA, Low Dropout Voltage, Low Quiescent Current, and High PSRR LDO
DFN-4	1×1	TPL710	1.0, 1.2, 1.8, 2.5, 2.8, 3.0, 3.3, 5.0	2.4 - 6	200	200mA, 1uA Ultra-Low Quiescent Current, Low Dropout Voltage LDO
DFN-4	1×1	TPL720	1.0, 1.2, 1.8, 2.5, 2.8, 3.0, 3.3, 5.0	2.4 - 6	400	400mA, 1uA Ultra-Low Quiescent Current, Low Dropout Voltage LDO
DFN-4	1×1	TPL9032	Fixed 0.9 – 5 with 0.1V step	1.75 – 5.5	300	300mA, 8.6 uVRMS Ultra-Low Noise, High PSRR, Low Dropout Voltage LDO
WLCSP-4	0.65×0.65	TPL9032	Fixed 0.9 – 5 with 0.1V step	1.75 – 5.5	300	300mA, 8.6 uVRMS Ultra-Low Noise, High PSRR, Low Dropout Voltage LDO
DFN-4	1×1	TPL9052	Fixed 0.9 – 5 with 0.1V step	1.75 – 5.5	500	500mA, 8.6 uVRMS Ultra-Low Noise, High PSRR, Low Dropout Voltage LDO
WLCSP-4	0.65×0.65	TPL9052	Fixed 0.9 – 5 with 0.1V step	1.75 – 5.5	500	500mA, 8.6 uVRMS Ultra-Low Noise, High PSRR, Low Dropout Voltage LDO
DFN-8	2×2	TPL9053	Adjustable 0.6 – 5.3	1.7 – 5.5	500	500mA, 5.7 uVRMS Ultra-Low Noise, High PSRR, Low Dropout Voltage LDO
DFN-10	2×2	TPL51206	0.5 – 1.8	1.0 – 3.5	±2000	VTT LDO with Sink/Source Current Capability for DDR Termination Power Supply

电源时序控制 POWER SEQUENCER

Part Number	VCC (V)	Timing Control	Sequence Control	Open-Drain Output	Output Voltage (V)	Channels	Junction Temperature Range (°C)	Package
TPK1031	2.7 ~ 5.5	Adjustable	Fixed	Yes	0 ~ VCC	3	-40 to +125	MSOP-8
TPK1032	2.7 ~ 5.5	Selectable	Selectable	Yes	0 ~ VCC	3	-40 to +125	SOT23-6

开关电源 SWITCHING POWER REGULATORS

Part Number	Description	VIN (V)	Output (V)	Max Output Current (A)	Control Mode	Temperature Range (°C)	Package
TPP2020	1-CH Synchronous Buck Converter, Light Load Efficiency, Enable	4.5~17	0.76~7	2	Constant On-time	-40 to +125	SOT23-6

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	Reset Output Polarity	Reset Output Type	Reset Threshold (V)	Temperature Range(°C)	Package
TPV803	2.2	Yes	—	—	—	200	—	Low Active	Open Drain	1.58~4.63	-40 to +125	SOT-23、SOT-23-3
TPV809	2.2	Yes	—	—	—	200	—	Low Active	Push-Pull	1.58~4.63	-40 to +125	SOT-23、SOT-23-3
TPV810	2.2	Yes	—	—	—	200	—	High Active	Push-Pull	1.58~4.63	-40 to +125	SOT-23、SOT-23-3
TPV811	2.2	Yes	Yes	—	—	200	—	Low Active	Push-Pull	1.58~4.63	-40 to +125	SOT-23-5、SOT-143
TPV812	2.2	Yes	Yes	—	—	200	—	High Active	Push-Pull	1.58~4.63	-40 to +125	SOT-23-5、SOT-143
TPV821	2.2	Yes	Yes	—	—	200	—	Low Active	Push-Pull	1.58~4.63	-40 to +125	SOT-23-5、SOT-143
TPV6823	2.2	Yes	Yes	Yes	—	200	1.6S	Low Active	Push-Pull	1.58~4.63	-40 to +125	SOT-23-5
TPV706	4	Yes	Yes	Yes	Yes	200	1.6S	Low Active	Push-Pull	1.58~4.63	-40 to +125	SOIC-8

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)(uVrms)	Output Capacitor Load (uF)	Package
TPR6040	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(3Pin)
TPR6040, -S suffix	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(3Pin)

Note: 3.3V、8.192V、10.0V Product, the Sample and Delivery Time is about 6 Months

串联型电压基准

Series Voltage Reference

Part Number	Output Voltage (V)	Vin (max)(V)	Vin (min)(V)	Iq (max)(uA)	Accuracy (max)(%)	Tempco (max)(ppm)	0.1 to 10Hz Output voltage noise (2.5Vout)(Typ)(uVpp)	Line regulation (max)(ppm/V)	Load regulation (max)(ppm/mA)	Output Capacitor Load(uF)	Package
TPR33XX	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(3Pin)、QFN-8 1.5×1.5
TPR35XX	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(3Pin)

锂电池充电芯片

LI-ON BATTERY CHARGER

线性充电芯片

Linear Charger

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

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	3~17	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

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	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	-5~20	-40 to +150	7 / 6	13	< 1	SOP-8、EMSOP-8、DFN2×2-8、DFN3×3-8
TPM27524	25-V, 5-A Dual Channel Low-side Gate Driver	4.5~25	2	+5/-5	-5~20	-40 to +150	7 / 6	13	< 1	SOP-8、EMSOP-8、DFN2×2-8、DFN3×3-8
TPM27525	25-V, 5-A Dual Channel Low-side Gate Driver	4.5~25	2	+5/-5	-5~20	-40 to +150	7 / 6	13	< 1	SOP-8、EMSOP-8、DFN2×2-8、DFN3×3-8
TPM27526	25-V, 5-A Dual Channel Low-side Gate Driver	4.5~25	2	+5/-5	-5~20	-40 to +150	7 / 6	13	< 1	SOP-8、EMSOP-8、DFN2×2-8、DFN3×3-8
TPM27517	25-V, 5-A Single Channel Low-side Gate Driver	4.5~25	1	+5/-5	-5~20	-40 to +150	7 / 6	13	< 1	SOT23-5

数字式电流 / 功率监测器
CURRENT / POWER MONITOR

Part Number	Features	Common Mode Voltage (Max) (V)	Input Offset (+/-) (Max) (uV)	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

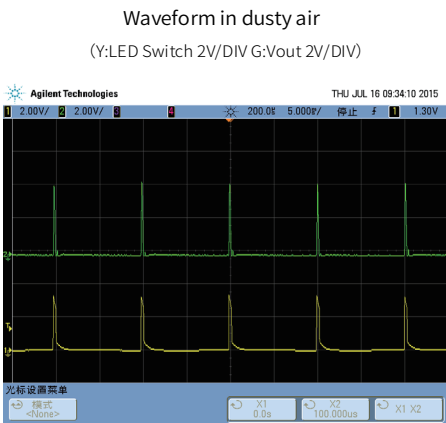
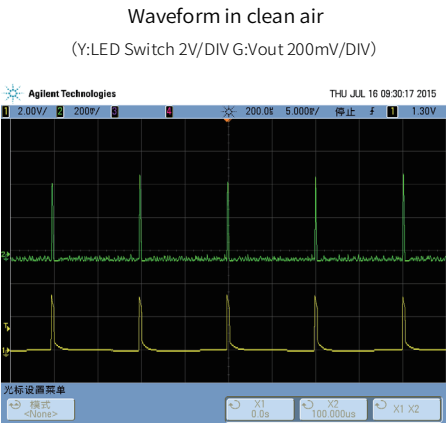
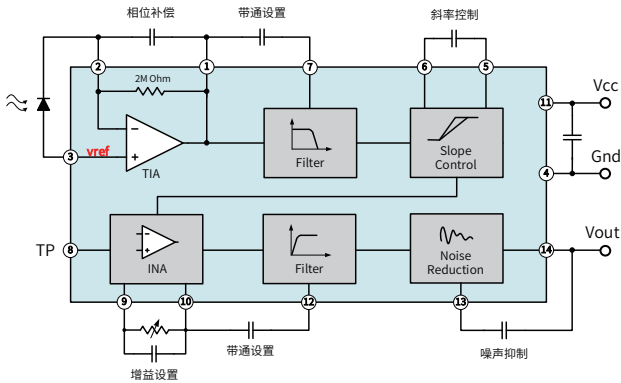
PM2.5 环境尘埃浓度检测 IC
PM2.5 ENVIRONMENTAL DUST CONCENTRATION DETECTION IC

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 内部的跨导放大电路可将外部输入的微弱电流信号转换为可调理的电压信号；利用载波放大技术配合带通滤波电路，可有效的控制器件低频噪声对原始信号的影响，提高模拟前端的信噪比。TPA8801B 输出可直接进入通用的 MCU 进行处理，可在 2.1V~5.5V 宽电压范围下工作，以适应不同 MCU 电源，3PEAK 可提供标准通用的 TSSOP-14 和 DFN-14 的紧凑型封装，工作温度支持 -40°C到 +125°C宽温度范围。

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.

Trans-conductance amplifier of TPA8801B converts weak current signal into voltage signal. Combining signal amplification with various filtering techniques, low-frequency noise is minimized while preserving the original signal, thus improving systems Signal to Noise Ratio. TPA8801B output can be directly processed by a general-purpose MCU. Supply voltage is between 2.1V and 5.5V while working temperature is -40 °C to + 125 °C . Both TSSOP-14 and DFN-14 packages are available.



**Oscilloscope Sampling Average=2(To average the Thermal Noise)

Pin to Pin 产品
PIN TO PIN PRODUCTS

3PEAK Part Number	Competitor Part Number		Major Target Segments
高压通用放大器			
LM321A	TI	LM321	电源 变频器 电池化成
	ST	LM321	
	ON	LM321	
LM358A	TI	LM358	
	ST	LM358	
	ON	LM358	
LM324A	TI	LM324	
	ST	LM324	
	ON	LM324	
LM2904A	TI	LM2904	
	ST	LM2904	
	ON	LM2904	
LM2902A	TI	LM2902	
	ST	LM2902	
	ON	LM2902	
高压高摆率放大器			
TP2262	TI	TL072, TL082	音频 变频器
	ST	TL072, TL082	
TP2264	TI	TL074, TL084	
	ST	TL074, TL084	
TP2582	JRC	NJM4558	音频
	JRC	NJM4580	
	ROHM	BA4558	
	ROHM	BA4580	
低压通用放大器			
LMV321B	TI	LMV321	通用市场
	ST	LMV321	
	ON	LMV321	
LMV358B	TI	LMV358	
	ST	LMV358	
	ON	LMV358	
LMV324B	TI	LMV324	
	ST	LMV324	
	ON	LMV324	
低压开关			
TPW3157A	TI	SN74LVC1G3157	通用市场
	TI	TS5A3157	
	SGM	SGM3157	
高压通用开关			
TPW4051	TI	HC4051	通用市场
	NXP	HC4051	
	ON	HC4051	
TPW4052	TI	HC4052	
	NXP	HC4052	
	ON	HC4052	
TPW4053	TI	HC4053	
	NXP	HC4053	
	ON	HC4053	

3PEAK Part Number	Competitor Part Number		Major Target Segments
电流信号检测放大器			
TP181AX	TI	INA21X/TP199	高边电流检测 电源
	ON	NCS21X	
高压比较器			
LM331A	ST	TS391	电源 变频 伺服 家电 通用市场
LM331AU	TI	TL331	
LM393A	TI	LM393	
	ON	LM393	
	ST	LM393	
LM339A	TI	LM339	
	ON	LM339	
	ST	LM339	
LM2903A	TI	LM2903	
	ON	LM2903	
	ST	LM2903	
LM2901A	TI	LM2901	
	ON	LM2901	
	ST	LM2901	
RS485			
TP8485E	TI	HVD3082 , THVD1500	通用市场
	MAXIM	MAX3085 , MAX487	
	Renesas	ISL83082 , ISL3152	
	Beiling	BL3085	
	Union	UM3085 , UM3483	
	Gatemode	GM3082	
TPT75176	SIT	SIT485	
	TI	SN75176A/B, HVD11DR	通用市场
	ADI	ADM3485E	
	MAXIM	MAX3485E	
	ST	ST3485E	
	Maxlinear	SP3485E	
	Union	UM3486	
Ruimeng	MS3485		
TPT485E	TI	THVD1500	电表市场
	Beiling	BL3085	
	Amazing	AZRS485	
	Rixin	ECH485	
TPT487	TI	HVD3082 , THVD1500	通用市场
	MAXIM	MAX3085 , MAX487	
	Renesas	ISL83082 , ISL3152	
	Beiling	BL3085	
	Union	UM3085	
RS-232			
TPT3232E	MAXIM	MAX3232E	通用市场
	TI	MAX3232E, TRS3232E	
	ADI	ADM3202	
	ST	ST3232E	
	Union	UM3232	
	SIT	SIT3232	

3PEAK Part Number	Competitor Part Number		Major Target Segments
高压低功耗 LDO			
TPL810	TI	TLV704XX	消防烟感 智能表计 智能门锁 智能家居
	Holtek	HT73XX	
	Torex	XC6201, XC6209, XC6202	
	SGM	SGM2200, SGM2300	
	Will Semi	WL2855	
	Micro One	ME6201, ME6208, ME6209	
TPL820	TI	TPS709XX	
	Holtek	HT75XX, HT71XX	
	SGM	SGM2201, SGM2202, SGM2203, SGM2204	
	Will Semi	WL2851, WL2852, WL2853, WL2861, WL2862	
	Micro One	ME6203	
低压通用 LDO			
TPL730	TI	TLV702, TLV707, TLV742	安防监控 家庭监控 智慧照明 智能终端 智能家居
	ON Semi	NCP114	
	SGM	SGM2019, SGM2021, SGM2032, SGM2036	
	Will Semi	WL2801, WL2810, WL2820, WL2863	
TPL740	ONSEMI	NCP177	
	Richtek	RT9013	
	SGM	SGM2028, SGM2035C, SGM2037, SGM2038	
	Will Semi	WL2803	
低压低功耗 LDO			
TPL710	TI	TPS706, TPS797	智能表计 智能门锁 智慧照明 智能终端 智能家居
	ON Semi	NCP170	
	Torex	XC6206, XC6216, XC6218	
	Seiko	S-1206, S-1313	
	Microchip	MCP1700	
	SGM	SGM2034, SGM2040	
	Will Semi	WL2805, WL2815, WL2825, WL2835	
TPL720	Richtek	RT9073	
	Torex	XC6203, XC6207	

3PEAK Part Number	Competitor Part Number		Major Target Segments
复位芯片			
TPV6823	TI	TPS3823	工业 通信
	ADI	ADM6823	
TPV803	ST	STM803	安防 机顶盒 电表 路由器 工业
TPV809	ST	STM809	
	SGM	SGM809	
	DIOO	DIO6809	
TPV810	ST	STM810	
	SGM	SGM810	
	DIOO	DIO6810	
TPV811	ST	STM811	
	SGM	SGM811	
TPV812	ST	STM812	
	SGM	SGM812	
TPV706	ADI	ADM706	电表 路由器 工业
	ST	STM706	
	SGM	SGM706	
Charger			
TPB4056A	SGM	SGM4056	TWS 智能家居 ePOS 电子烟
	DIOO	DIO58056	
	CHIPOWER	CE3156	
电流 / 功率监测芯片			
TPA626	TI	INA226	服务器 自动化测试设备 通信 电源 工业控制
TPA620	TI	INA220	

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