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# 运算放大器

## OPERATIONAL AMPLIFIERS

低压低功耗运算放大器 (电源电压 <10V, 每通道电流 <10 $\mu$ A)  
Low-Voltage Low-Power Operational Amplifiers (Supply Voltage <10V, Current per channel <10 $\mu$ A)

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

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

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

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

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

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

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

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

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

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

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

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

### 高压高精度运算放大器 (电源电压大于 10V, Vos<0.5mV) High-Voltage High-Precision Operational Amplifiers (Supply Voltage >10V, Vos<0.5mV)

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

### 低偏置电流运算放大器 (Ib<1pA) Low Bias Current Operational Amplifiers (Ib<1pA)

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

# 特殊放大器

## SPECIAL AMPLIFIERS

### 仪表放大器

#### Instrumentation Amplifiers

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

### 差动放大器

#### Differential Amplifiers

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

### 对数放大器

#### Logarithmic Amplifiers

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

### 带电压基准放大器

#### Amplifiers with Voltage Reference

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



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

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

## 音频线路驱动器 Audio Line Drivers

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

## 视频滤波驱动器 Video Filter Drivers

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

# 传感器接口

## SENSOR INTERFACE

### 霍尔传感器接口

#### Hall Sensor Interface

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

### 光学传感器接口

#### Optical Sensor Interface

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

# 模拟开关 ANALOG SWITCH

## 高压开关 High Voltage Switch

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

## 低压开关 Low Voltage Switch

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