

The logo consists of the letters 'NPW' in a bold, blue, sans-serif font. The 'N' and 'P' are connected at the top, and the 'W' is slightly larger and positioned to the right.

那浦微电子

The title '产品选型手册' is written in a white, stylized font with a slight shadow. It is centered on a background of a glowing blue circuit board. There are small white starburst icons on either side of the title.

Products Selection Guide

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## 关于我们

NPW 那浦微电子

那浦微电子由一批来自欧美顶尖设计公司的本土工程师创建，核心团队平均工作经验超过18年，在信号链和电源管理芯片领域具备丰富的设计和量产经验。公司产品涉及高精度电压基准；仪表放大器、精密放大器；Sigma Delta ADC、Sar ADC；以及电机驱动/接口芯片等。公司市场定位泛工业和汽车领域，目前在工业设备，新能源，储能，汽车等领域已批量出货超过100kk pcs，年失效率小于2ppm。

那浦微电子作为一家本土模拟芯片设计公司，致力于高精尖芯片国产化生态的打造和拓展，以国家产业发展需求为导向，致力于提供创新性、高性能、高可靠性的半导体产品，并为客户提供全面的解决方案。

公司商业合作模式多样化，可为客户提供成品、晶圆生意。

联系方式: [Sales@napusemi.com](mailto:Sales@napusemi.com)



SEMICONDUCTORS SUPPLIER

## Lower Power Amplifier 低功耗放大器

Order Number	CH (#)	I <sub>Q</sub> /CH (Typ) (μA)	Input Bias (Typ) (pA)	V <sub>os</sub> (Max) (μV)	V <sub>os</sub> Drift (Typ) (μV/°C)	V <sub>CC</sub> (V)	GBW (MHz)	Slew Rate (Typ) (V/μs)	Noise (Typ) (nV/rtHz)	Rail-to-Rail	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	静态电流/通道	输入偏置电流	失调电压	失调电压漂移	供电电压	带宽	压摆率	噪声谱密度	轨到轨	特性	工作温度范围	等级	封装	状态	竞品
NP45510BSOT235	1	0.24	0.1	2200	3.5	1.6-5.5	0.004	0.0013	347	IN/OUT		-40-125	Industrial	SOT23-5	Production	LPV801, TP2111
NP45530ASOT235	1	0.57	0.1	210	1.2	1.6-5.5	0.011	0.003	214	IN/OUT		-40-125	Industrial	SOT23-5	Production	LPV811, LPV821
NP45540ASOT236	1	0.57	0.1	210	1.2	1.6-5.5	0.011	0.003	214	IN/OUT	Power-Down	-40-125	Industrial	SOT23-6	Production	LPV811, LPV821
NP45550ASOT235	1	3.2	0.1	260	1	1.6-5.5	0.065	0.02	100	IN/OUT		-40-125	Industrial	SOT23-5	Production	MAX40023
NP45560ASOT236	1	3.2	0.1	260	1	1.6-5.5	0.065	0.02	100	IN/OUT	Power-Down	-40-125	Industrial	SOT23-6	Production	MAX4036
NP45510BSOIC8	1	0.24	0.1	2200	3.5	1.6-5.5	0.004	0.0013	347	IN/OUT		-40-125	Industrial	SOIC-8	Sample*	
NP45530ASOIC8	1	0.57	0.1	210	1.2	1.6-5.5	0.011	0.003	214	IN/OUT		-40-125	Industrial	SOIC-8	Sample*	
NP45540ASOIC8	1	0.57	0.1	210	1.2	1.6-5.5	0.011	0.003	214	IN/OUT	Power-Down	-40-125	Industrial	SOIC-8	Sample*	
NP45550ASOIC8	1	3.2	0.1	260	1	1.6-5.5	0.065	0.02	100	IN/OUT		-40-125	Industrial	SOIC-8	Sample*	
NP45560ASOIC8	1	3.2	0.1	260	1	1.6-5.5	0.065	0.02	100	IN/OUT	Power-Down	-40-125	Industrial	SOIC-8	Sample*	
NP45510BMSOP8	1	0.24	0.1	2200	3.5	1.6-5.5	0.004	0.0013	347	IN/OUT		-40-125	Industrial	MSOP-8	Sample*	
NP45530AMSOP8	1	0.57	0.1	210	1.2	1.6-5.5	0.011	0.003	214	IN/OUT		-40-125	Industrial	MSOP-8	Sample*	
NP45540AMSOP8	1	0.57	0.1	210	1.2	1.6-5.5	0.011	0.003	214	IN/OUT	Power-Down	-40-125	Industrial	MSOP-8	Sample*	
NP45550AMSOP8	1	3.2	0.1	260	1	1.6-5.5	0.065	0.02	100	IN/OUT		-40-125	Industrial	MSOP-8	Sample*	
NP45560AMSOP8	1	3.2	0.1	260	1	1.6-5.5	0.065	0.02	100	IN/OUT	Power-Down	-40-125	Industrial	MSOP-8	Sample*	
NP48530ASOT235	1	0.57	0.1	2000	1.2	1.6-5.5	0.011	0.003	214	IN/OUT		-40-125	Industrial	SOT23-5	Sample	TP2121
NP48540ASOT236	1	0.57	0.1	2000	1.2	1.6-5.5	0.011	0.003	214	IN/OUT	Power-Down	-40-125	Industrial	SOT23-6	Sample	
NP48550ASOT235	1	3.2	0.1	2000	1	1.6-5.5	0.065	0.02	100	IN/OUT		-40-125	Industrial	SOT23-5	Sample	
NP48560ASOT236	1	3.2	0.1	2000	1	1.6-5.5	0.065	0.02	100	IN/OUT	Power-Down	-40-125	Industrial	SOT23-6	Sample	
NP48530ASOIC8	1	0.57	0.1	2000	1.2	1.6-5.5	0.011	0.003	214	IN/OUT		-40-125	Industrial	SOIC-8	Sample*	

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## Zero Drift Amplifier 零飘移放大器

Order Number	CH (#)	EN Pin	Vos (Max) (μV)	Vos Drift (Typ) (μV/°C)	Vcc (V)	Iq/CH (Typ) (μA)	GBW (kHz)	Slew Rate (Typ) (V/us)	Noise (Typ) (nV/rtHz)	Rail-to-Rail	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	使能管脚	偏移电压	温漂	供电电压	静态电流	带宽	压摆率	噪声谱密度	轨到轨	工作温度范围	等级	封装	状态	竞品
NP46120BSOT235	1	No	±10	±0.03	4.5-40	150	270	0.8	35	OUT	-40-125	Industrial	SOT23-5	Production	OPA187
NP46120BSOIC8	1	No	±10	±0.03	4.5-40	150	270	0.8	35	OUT	-40-125	Industrial	SOIC-8	Production	OPA187
NP461022BSOIC8	2	No	±10	±0.03	4.5-40	150	270	0.8	35	OUT	-40-125	Industrial	SOIC-8	Production	OPA2187, RS8632
NP46220BSOT235	1	No	±10	±0.03	4.5-40	300	1000	2.8	17.6	OUT	-40-125	Industrial	SOT23-5	Production	OP07/D
NP46220BSOIC8	1	No	±10	±0.03	4.5-40	300	1000	2.8	17.6	OUT	-40-125	Industrial	SOIC-8	Production	OP07/D
NP462022BSOIC8	2	No	±10	±0.03	4.5-40	300	1000	2.8	17.6	OUT	-40-125	Industrial	SOIC-8	Production	MS8228
NP46320BSOT235	1	No	±10	±0.03	4.5-40	600	2200	3.8	11.6	OUT	-40-125	Industrial	SOT23-5	Production	OPA188, SGM8251, TPA1861
NP46320BSOIC8	1	No	±10	±0.03	4.5-40	600	2200	3.8	11.6	OUT	-40-125	Industrial	SOIC-8	Production	OPA188, SGM8251, TPA1861
NP463022BSOIC8	2	No	±10	±0.03	4.5-40	600	2200	3.8	11.6	OUT	-40-125	Industrial	SOIC-8	Production	OPA2188, SGM8252, TPA1862
NP46510ASOT235	1	No	±10	±0.03	1.7-5.5	0.68	15	0.003	213	IN/OUT	-40-125	Industrial	SOT23-5	Production	LPV821, LTC2063
NP46520ASOT236	1	Yes	±10	±0.03	1.7-5.5	0.68	15	0.003	213	IN/OUT	-40-125	Industrial	SOT23-6	Production	LPV821
NP46530ASOT235	1	No	±10	±0.03	1.7-5.5	3.9	83	0.03	93	IN/OUT	-40-125	Industrial	SOT23-5	Production	LPV821, MCP6V11, SGM8954
NP46540ASOT236	1	Yes	±10	±0.03	1.7-5.5	3.9	83	0.03	93	IN/OUT	-40-125	Industrial	SOT23-6	Production	LPV821

## Precision Amplifier 精密放大器

Order Number	CH (#)	VOS (Max) (μV)	VOS Drift (Typ) (μV/°C)	VCC (V)	IQ/CH (Typ) (μA)	GBW (kHz)	Slew Rate (Typ) (V/ms)	Noise (Typ) (nV/rtHz)	Rail-to-Rail	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	偏移电压	温漂	供电电压	静态电流	带宽	压摆率	噪声谱密度	轨到轨	工作温度范围	等级	封装	状态	竞品
NP45350ASOIC8	1	±100	±4	2.7-36	550	2500	1.6	17	IN/OUT	-40-125	Industrial	SOIC-8	Production	OPA171, TLV171, TP2261, SGM8291
NP45350ASOT235	1	±100	±4	2.7-36	550	2500	1.6	17	IN/OUT	-40-125	Industrial	SOT23-5	Production	OPA171, TLV171, TP2261, SGM8291
NP4530A5MSOP8	1	±100	±4	2.7-36	550	2500	1.6	17	IN/OUT	-40-125	Industrial	MSOP-8	Production	
NP453025ASOIC8	2	±100	±4	2.7-36	550	2500	1.6	17	IN/OUT	-40-125	Industrial	SOIC-8	Production	OPA2171, TLV2171, TPA2262, SGM8292
NP453025AMSOP8	2	±100	±4	2.7-36	550	2500	1.6	17	IN/OUT	-40-125	Industrial	MSOP-8	Production	OPA2171, TPA2262, SGM8292, TLV2171
NP453025ATSSOP8	2	±100	±4	2.7-36	550	2500	1.6	17	IN/OUT	-40-125	Industrial	TSSOP-8	Production	TPA2262
NP45210ASOT235	1	±100	±4	2.7-36	300	1000	0.8	20	IN/OUT	-40-125	Industrial	SOT23-5	Sample*	TLV07
NP45220ASOT235	1	±100	±4	2.7-36	350	1500	1.1	21	IN/OUT	-40-125	Industrial	SOT23-5	Sample*	TPA2641
NP45110ASOIC8	1	±100	±4	2.7-36	125	300	0.5	24	IN/OUT	-40-125	Industrial	SOIC-8	Sample*	OPA170, TLV170, TPA2642
NP45110ASOT235	1	±100	±4	2.7-36	125	300	0.5	24	IN/OUT	-40-125	Industrial	SOT23-5	Sample*	OPA170, TLV170, TPA2642
NP45110AMOSP8	1	±100	±4	2.7-36	125	300	0.5	24	IN/OUT	-40-125	Industrial	MSOP-8	Sample*	SGM8291
NP451102ASOIC8	2	±100	±4	2.7-36	125	300	0.5	24	IN/OUT	-40-125	Industrial	SOIC-8	Sample*	OPA2170, TLV2170, TPA2642
NP451102AMSOP8	2	±100	±4	2.7-36	125	300	0.5	24	IN/OUT	-40-125	Industrial	MSOP-8	Sample*	SGM8292, TPA2642, OPA2170, TLV2170, TPA2641
NP451102ATSSOP8	2	±100	±4	2.7-36	125	300	0.5	24	IN/OUT	-40-125	Industrial	TSSOP-8	Sample*	TPA2642

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## Low Bias Current Amplifier 低偏置电流放大器

Order Number	CH (#)	Ibias (typ) (fA)	VOS (Max) (mV)	VOS Drift (Typ) ( $\mu\text{V}/^\circ\text{C}$ )	VCC (V)	IQ/CH (Typ) ( $\mu\text{A}$ )	GBW (kHz)	Slew Rate (Typ) (V/ $\mu\text{s}$ )	Noise (Typ) (nV/ $\text{rtHz}$ )	Rail-to-Rail	OP. Temp ( $^\circ\text{C}$ )	Rating	Package	Status	Competitor
供货型号	通道	偏置电流	偏移电压	温漂	供电电压	静态电流	带宽	压摆率	噪声谱密度	轨到轨	工作温度范围	等级	封装	状态	竞品
NP49310ADIP8	1	2	$\pm 2$	$\pm 2$	4-36	550	2500	1.5	19	OUT	-40-125	Industrial	DIP8	Sample	
NP49310ASOT235	1	2	$\pm 2$	$\pm 2$	4-36	550	2500	1.5	19	OUT	-40-125	Industrial	SOT23-5	Sample	AD8641
NP49310ASOIC8	1	2	$\pm 2$	$\pm 2$	4-36	550	2500	1.5	19	OUT	-40-125	Industrial	SOIC8	Sample*	AD8641
NP49310AMSOP8	1	2	$\pm 2$	$\pm 2$	4-36	550	2500	1.5	19	OUT	-40-125	Industrial	MSOP8	Sample*	
NP493102ADIP8	2	2	$\pm 2$	$\pm 2$	4-36	550	2500	1.5	19	OUT	-40-125	Industrial	DIP8	Sample*	
NP493102ASOIC8	2	2	$\pm 2$	$\pm 2$	4-36	550	2500	1.5	19	OUT	-40-125	Industrial	SOIC8	Sample	AD8642
NP493102AMSOP8	2	2	$\pm 2$	$\pm 2$	4-36	550	2500	1.5	19	OUT	-40-125	Industrial	MSOP8	Sample	AD8642
NP49210ADIP8	1	2	$\pm 2$	$\pm 2$	4-36	200	300	1.5	19	OUT	-40-125	Industrial	DIP8	Sample*	
NP49210ASOIC8	1	2	$\pm 2$	$\pm 2$	4-36	200	300	1.5	19	OUT	-40-125	Industrial	SOIC8	Sample*	
NP49210AMSOP8	1	2	$\pm 2$	$\pm 2$	4-36	200	300	1.5	19	OUT	-40-125	Industrial	MSOP8	Sample*	
NP492102ADIP8	2	2	$\pm 2$	$\pm 2$	4-36	200	300	1.5	19	OUT	-40-125	Industrial	DIP8	Sample*	
NP492102ASOIC8	2	2	$\pm 2$	$\pm 2$	4-36	200	300	1.5	19	OUT	-40-125	Industrial	SOIC8	Sample*	
NP492102AMSOP8	2	2	$\pm 2$	$\pm 2$	4-36	200	300	1.5	19	OUT	-40-125	Industrial	MSOP8	Sample*	

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## Instrument Amplifier 仪表放大器

Order Number	CH (#)	Iq/CH (Typ) (μA)	Input Bias (Typ) (nA)	VosI (Type) (μV)	VosI Drift (Typ) (μV/°C)	CMRR (Typ) (dB)	Vcc (V)	BW (KHz)	Gain Type	Gain (Typ) (V/V)	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	静态电流/通道	输入偏置电流	失调电压	失调电压漂移	共模抑制比	供电电压	带宽	增益类型	增益	工作温度范围	等级	封装	状态	竞品
NP41110ASOIC8	1	1560	1	±2.5	0.02	104	4-38	1300	RG	1-10000	-40-85	Industrial	SOIC-8	Production	AD620 INA188
NP41120ASOIC8	1	1560	1	±2.5	0.02	104	4-38	1300	RG	1-10000	-55-125	Industrial	SOIC-8	Production	
NP41130ASOIC8	1	1300	0.6	±4	0.1	111	4-38	2038	RG	1-10000	-40-125	Industrial	MSOP-8	Sample*	
NP41140ASOIC8	1	1300	0.6	±4	0.1	111	4-38	2038	RG	1-10000	-40-125	Industrial	MSOP-8	Sample	
NP41111ASOIC8	1	650	1	±2.5	0.1	110	4-38	400	RG	1-10000	-40-85	Industrial	SOIC-8	Production	
NP41121ASOIC8	1	650	1	±2.5	0.1	110	4-38	400	RG	1-10000	-55-125	Industrial	SOIC-8	Production	
NP41210ASOIC8	1	1500	1	±3	0.03	130	4-38	256	RG and OS	10-100	-40-85	Industrial	SOIC-8	Production	AD621
NP41220ASOIC8	1	1500	1	±3	0.03	130	4-38	256	RG and OS	10-100	-55-125	Industrial	SOIC-8	Production	AD621
NP41211ASOIC8	1	350	1	±3.5	0.05	110	4-38	130	RG and OS	10-100	-40-85	Industrial	SOIC-8	Sample*	AD621
NP41221ASOIC8	1	350	1	±3.5	0.05	110	4-38	130	RG and OS	10-100	-55-125	Industrial	SOIC-8	Sample*	AD621
NP41510LASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	2	-55-125	Industrial	SOIC-8	Sample*	
NP41510MASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	5	-55-125	Industrial	SOIC-8	Sample*	
NP41510HASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	10	-55-125	Industrial	SOIC-8	Sample*	
NP41510NASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	20	-55-125	Industrial	SOIC-8	Sample*	
NP41510PASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	25	-55-125	Industrial	SOIC-8	Sample*	
NP41510RASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	50	-55-125	Industrial	SOIC-8	Sample*	
NP41510SASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	75	-55-125	Industrial	SOIC-8	Sample*	
NP41510TASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	100	-55-125	Industrial	SOIC-8	Sample*	
NP41510KASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	125	-55-125	Industrial	SOIC-8	Sample*	
NP41510JASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	200	-55-125	Industrial	SOIC-8	Sample*	
NP41510GASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	250	-55-125	Industrial	SOIC-8	Sample*	
NP41510FASOIC8	1	1560	1	±3.5	0.05	110	4-38	1300	Fixed	500	-55-125	Industrial	SOIC-8	Sample*	

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## Current Sense Amplifier 电流采样放大器

Order Number	CH (#)	V <sub>CM</sub> (V)	Input Offset (Max) ( $\mu$ V)	Input Offset Drift (Typ) ( $\mu$ V/ $^{\circ}$ C)	Gain (V/V)	Gain Error (Max) (%)	Gain Error Drift (Typ) (ppm/ $^{\circ}$ C)	CMRR (Typ) (dB)	BW (kHz)	VCC (V)	I <sub>Q</sub> (Typ) (mA)	Enhanced PWM Rejection	OP. Temp ( $^{\circ}$ C)	Rating	Package	Status	Competitor
供货型号	通道	输入共模电压	最大输入偏置电压	输入偏置电压典型温漂	增益	最大增益误差	Shunt增益误差温漂	共模抑制比	带宽	供电电压	静态电流	增强PWM抑制	工作温度范围	等级	封装	状态	竞品
NP43204LCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	SOIC-8	Production	INA240, AD8418 NCS7041, TSC2010
NP43204MCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	SOIC-8	Production	
NP43204NCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	SOIC-8	Production	
NP43204LCMSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	MSOP-8	Production	AD8418, MAX40056 NCS7041, TSC2010
NP43204MCSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	MSOP-8	Production	
NP43204NCMSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	MSOP-8	Production	
NP43204LCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	TSSOP-8	Production	INA240
NP43204MCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	TSSOP-8	Production	INA240
NP43204NCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Industrial	TSSOP-8	Production	INA240
NP43214LCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	SOIC-8	Sample*	
NP43214MCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	SOIC-8	Sample*	
NP43214NCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	SOIC-8	Sample*	
NP43214LCMSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	MSOP-8	Sample*	INA241
NP43214MCSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	MSOP-8	Sample*	INA241
NP43214NCMSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	MSOP-8	Sample*	INA241
NP43214LCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	TSSOP-8	Sample*	
NP43214MCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	TSSOP-8	Sample*	
NP43214NCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	250	2.7-5.5	0.8	Y	-40-125	Industrial	TSSOP-8	Sample*	
NP43204LQCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Auto	SOIC-8	Production	INA240-Q1
NP43204MQCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Auto	SOIC-8	Production	INA240-Q1
NP43204NQCSOIC8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Auto	SOIC-8	Production	INA240-Q1
NP43204LQCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	20	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Auto	TSSOP-8	Production	INA240-Q1
NP43204MQCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	50	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Auto	TSSOP-8	Production	INA240-Q1
NP43204NQCTSSOP8	1	-6-80	$\pm$ 15	$\pm$ 0.19	100	$\pm$ 0.1	$\pm$ 6	160	550	2.7-5.5	1.4	Y	-40-125	Auto	TSSOP-8	Production	INA240-Q1

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## Current Sense Amplifier 电流采样放大器

Order Number	CH (#)	V <sub>CM</sub> (V)	Input Offset (Max) (μV)	Input Offset Drift (Typ) (μV/°C)	Gain (V/V)	Gain Error (Max) (%)	Gain Error Drift (Typ) (ppm/°C)	CMRR (Typ) (dB)	BW (kHz)	VCC (V)	I <sub>Q</sub> (Typ) (mA)	Enhanced PWM Rejection	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	输入共模电压	最大输入偏置电压	输入偏置电压典型温漂	增益	最大增益误差	Shunt增益误差温漂	共模抑制比	带宽	供电电压	静态电流	增强PWM抑制	工作温度范围	等级	封装	状态	竞品
NP43214LQCSOIC8	1	-6-80	±15	±0.19	20	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	SOIC-8	Sample*	
NP43214MQCSOIC8	1	-6-80	±15	±0.19	50	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	SOIC-8	Sample*	
NP43214NQCSOIC8	1	-6-80	±15	±0.19	100	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	SOIC-8	Sample*	
NP43214LQCMSOP8	1	-6-80	±15	±0.19	20	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	MSOP-8	Sample*	
NP43214MQCMSOP8	1	-6-80	±15	±0.19	50	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	MSOP-8	Sample*	
NP43214NQCMSOP8	1	-6-80	±15	±0.19	100	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	MSOP-8	Sample*	
NP43214LQCTSSOP8	1	-6-80	±15	±0.19	20	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	TSSOP-8	Sample*	
NP43214MQCTSSOP8	1	-6-80	±15	±0.19	50	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	TSSOP-8	Sample*	
NP43214NQCTSSOP8	1	-6-80	±15	±0.19	100	±0.1	±6	160	250	2.7-5.5	0.8	Y	-40-125	Auto	TSSOP-8	Sample*	
NP43254LCSOT235	1	-6-80	±50	±0.35	20	±0.3	±9	150	550	2.7-5.5	1.4	N	-40-125	Industrial	SOT23-5	Sample	INA181, TPA2296
NP43254MCSOT235	1	-6-80	±50	±0.35	50	±0.3	±9	150	550	2.7-5.5	1.4	N	-40-125	Industrial	SOT23-5	Sample	INA181, TPA2296
NP43254NCSOT235	1	-6-80	±50	±0.35	100	±0.3	±9	150	550	2.7-5.5	1.4	N	-40-125	Industrial	SOT23-5	Sample	INA181, TPA2296
NP43254LQCSOT235	1	-6-80	±50	±0.35	20	±0.3	±9	150	550	2.7-5.5	1.4	N	-40-125	Auto	SOT23-5	Sample	INA293-Q1
NP43254MQCSOT235	1	-6-80	±50	±0.35	50	±0.3	±9	150	550	2.7-5.5	1.4	N	-40-125	Auto	SOT23-5	Sample	INA293-Q1
NP43254NQCSOT235	1	-6-80	±50	±0.35	100	±0.3	±20	150	550	2.7-5.5	1.4	N	-40-125	Auto	SOT23-5	Sample	INA293-Q1

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## Current Sense Amplifier 电流采样放大器

Order Number	CH (#)	V <sub>CM</sub> (V)	VOS (Typ) (μV)	Input Offset Drift (Typ) (μV/°C)	Gain (Typ) (V/V)	Gain Error (Max) (%)	Gain Error Drift (Typ) (ppm/°C)	CMRR (Typ) (dB)	BW (kHz)	VCC (V)	IQ (Typ) (uA)	Enhanced PWM Rejection	OP.Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	输入共模电压	失调电压	输入偏置电压典型温漂	增益	增益误差	Shunt增益误差温漂	共模抑制比	带宽	供电电压	静态电流	增强PWM抑制	工作温度范围	等级	封装	状态	竞品
NP432120LAMSOP8	2	0-80	10	0.2	10	0.1	NA	155	60	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Sample*	
NP432120MAMSOP8	2	0-80	10	0.2	20	0.1	NA	155	60	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Sample*	
NP432120NAMSOP8	2	0-80	10	0.2	50	0.1	NA	155	60	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Sample*	
NP432120PAMSOP8	2	0-80	10	0.2	100	0.1	NA	155	60	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Sample*	
NP432220LAMSOP8	2	0-76	5	0.2	10	0.1	NA	160	50	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Sample	
NP432220MAMSOP8	2	0-76	5	0.2	20	0.1	NA	160	50	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Production	
NP432220NAMSOP8	2	0-76	5	0.2	50	0.1	NA	160	50	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Production	
NP432220PAMSOP8	2	0-76	5	0.2	100	0.1	NA	160	50	2.7-5.5	300	N	-40-125	Industrial	MSOP-8	Sample	
NP432320LAMSOP8	2	0-76	10	0.2	10	0.1	NA	160	90	2.7-5.5	511	N	-40-125	Industrial	MSOP-8	Production	MAX44285/40201
NP432320MAMSOP8	2	0-76	10	0.2	20	0.1	NA	160	90	2.7-5.5	511	N	-40-125	Industrial	MSOP-8	Production	MAX44285/40201
NP432320NAMSOP8	2	0-76	10	0.2	50	0.1	NA	160	90	2.7-5.5	511	N	-40-125	Industrial	MSOP-8	Production	MAX44285/40201
NP432320PAMSOP8	2	0-76	10	0.2	100	0.1	NA	160	90	2.7-5.5	511	N	-40-125	Industrial	MSOP-8	Sample	MAX44285/40201
NP432420LAMSOP8	2	0-80	10	0.05	10	0.1	NA	180	115	2.7-5.5	425	N	-40-125	Industrial	MSOP-8	Sample*	
NP432420MAMSOP8	2	0-80	10	0.05	20	0.1	NA	180	115	2.7-5.5	425	N	-40-125	Industrial	MSOP-8	Sample	
NP432420NAMSOP8	2	0-80	10	0.05	50	0.1	NA	180	115	2.7-5.5	425	N	-40-125	Industrial	MSOP-8	Sample*	
NP432420PAMSOP8	2	0-80	10	0.05	100	0.1	NA	180	115	2.7-5.5	425	N	-40-125	Industrial	MSOP-8	Sample*	
NP43202LASOT235	1	0-76	5	0.16	10	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOT23-5	Production	
NP43202MASOT235	1	0-76	5	0.16	20	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOT23-5	Production	
NP43202NASOT235	1	0-76	5	0.16	50	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOT23-5	Production	
NP43202PASOT235	1	0-76	5	0.16	100	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOT23-5	Production	

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## Current Sense Amplifier 电流采样放大器

Order Number	CH (#)	V <sub>CM</sub> (V)	VOS (Typ) (μV)	Input Offset Drift (Typ) (μV/°C)	Gain (Typ) (V/V)	Gain Error (Max) (%)	Gain Error Drift (Typ) (ppm/°C)	CMRR (Typ) (dB)	BW (kHz)	VCC (V)	IQ (Typ) (μA)	Enhanced PWM Rejection	OP.Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	输入共模电压	失调电压	输入偏置电压典型温漂	增益	增益误差	Shunt增益误差温漂	共模抑制比	带宽	供电电压	静态电流	增强PWM抑制	工作温度范围	等级	封装	状态	竞品
NP43212LASOIC8	1	0-76	5	0.16	10	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43212MASOIC8	1	0-76	5	0.16	20	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43212NASOIC8	1	0-76	5	0.16	50	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43212PASOIC8	1	0-76	5	0.16	100	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43212LATSSOP8	1	0-76	5	0.16	10	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	TSSOP-8	Production	INA240
NP43212MATSSOP8	1	0-76	5	0.16	20	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	TSSOP-8	Production	INA240
NP43212NATSSOP8	1	0-76	5	0.16	50	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	TSSOP-8	Production	INA240
NP43212PATSSOP8	1	0-76	5	0.16	100	0.1	NA	159	50	2.7-5.5	300	N	-40-125	Industrial	TSSOP-8	Production	INA240
NP43203LASOT235	1	0-76	8	0.16	10	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOT23-5	Production	INA186
NP43203MASOT235	1	0-76	8	0.16	20	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOT23-5	Production	INA186
NP43203NASOT235	1	0-76	8	0.16	50	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOT23-5	Production	INA186
NP43203PASOT235	1	0-76	8	0.16	100	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOT23-5	Production	INA186
NP43213LASOIC8	1	0-76	8	0.16	10	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43213MASOIC8	1	0-76	8	0.16	20	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43213NASOIC8	1	0-76	8	0.16	50	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43213PASOIC8	1	0-76	8	0.16	100	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	SOIC-8	Production	INA240
NP43213LATSSOP8	1	0-76	8	0.16	10	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	TSSOP-8	Production	INA240
NP43213MATSSOP8	1	0-76	8	0.16	20	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	TSSOP-8	Production	INA240
NP43213NATSSOP8	1	0-76	8	0.16	50	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	TSSOP-8	Production	INA240
NP43213PATSSOP8	1	0-76	8	0.16	100	0.1	NA	159	90	2.7-5.5	560	N	-40-125	Industrial	TSSOP-8	Production	INA240

## Current Sense Amplifier 电流采样放大器

Order Number	CH (#)	V <sub>CM</sub> (V)	VOS (Typ) (μV)	Input Offset Drift (Typ) (μV/°C)	Gain (Typ) (V/V)	Gain Error (Max) (%)	Gain Error Drift (Typ) (ppm/°C)	CMRR (Typ) (dB)	BW (kHz)	VCC (V)	I <sub>Q</sub> (Typ) (mA)	Enhanced PWM Rejection	OP.Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	输入共模电压	失调电压	输入偏置电压典型温漂	增益	增益误差	Shunt增益误差温漂	共模抑制比	带宽	供电电压	静态电流	增强PWM抑制	工作温度范围	等级	封装	状态	竞品
NP43351LATSSOP14	1	-6-80	±20	±0.2	20	±0.1	±6	160	420	2.7-5.5	1.7	N	-40-125	Industrial	TSSOP-14	Sample	INA203
NP43351MATSSOP14	1	-6-80	±20	±0.2	50	±0.1	±6	160	420	2.7-5.5	1.7	N	-40-125	Industrial	TSSOP-14	Sample	INA204
NP43351PATSSOP14	1	-6-80	±20	±0.2	100	±0.1	±6	160	420	2.7-5.5	1.7	N	-40-125	Industrial	TSSOP-14	Production	INA205
NP43341LAMSOP8	1	-6-80	±20	±0.2	20	±0.1	±6	160	420	2.7-5.5	1.6	N	-40-125	Industrial	MSOP-8	Production	INA200,MAX4374T
NP43341MAMSOP8	1	-6-80	±20	±0.2	50	±0.1	±6	160	420	2.7-5.5	1.6	N	-40-125	Industrial	MSOP-8	Sample	INA201,MAX4374F
NP43341PAMSOP8	1	-6-80	±20	±0.2	100	±0.1	±6	160	420	2.7-5.5	1.6	N	-40-125	Industrial	MSOP-8	Sample	INA202,MAX4374H
NP43311LAMSOP8	1	-6-80	±20	±0.2	20	±0.1	±6	160	420	2.7-5.5	1.6	N	-40-125	Industrial	MSOP-8	Production	INA301A1,MAX4373T
NP43311MAMSOP8	1	-6-80	±20	±0.2	50	±0.1	±6	160	420	2.7-5.5	1.6	N	-40-125	Industrial	MSOP-8	Sample	INA301A2,MAX4373F
NP43311PAMSOP8	1	-6-80	±20	±0.2	100	±0.1	±6	160	420	2.7-5.5	1.6	N	-40-125	Industrial	MSOP-8	Sample	INA301A3,MAX4373H
NP43502MASOT235	1	-0.3-36	±30	0.3	20	±2	8	150	350	2.5-5.5	215	N	-40-125	Industrial	SOT235	Sample	INA180A1
NP43502NASOT235	1	-0.3-36	±30	0.3	50	±2	8	150	210	2.5-5.5	215	N	-40-125	Industrial	SOT235	Sample	INA180A2
NP43502PASOT235	1	-0.3-36	±30	0.3	100	±2	8	150	150	2.5-5.5	215	N	-40-125	Industrial	SOT235	Sample*	INA180A3
NP43502RASOT235	1	-0.3-36	±30	0.3	200	±2	8	150	105	2.5-5.5	215	N	-40-125	Industrial	SOT235	Sample*	INA180A4
NP43512MASOT235	1	-0.3-36	±15	0.05	20	±1	10	140	350	2.5-5.5	192	N	-40-125	Industrial	SOT235	Sample*	INA181A1
NP43512NASOT235	1	-0.3-36	±15	0.05	50	±1	10	140	210	2.5-5.5	192	N	-40-125	Industrial	SOT235	Sample*	INA181A2
NP43512PASOT235	1	-0.3-36	±15	0.05	100	±1	10	140	150	2.5-5.5	192	N	-40-125	Industrial	SOT235	Sample*	INA181A3
NP43512RASOT235	1	-0.3-36	±15	0.05	200	±1	10	140	105	2.5-5.5	192	N	-40-125	Industrial	SOT235	Sample*	INA181A4

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## Current And Power Monitor 电流功耗监视器

Order Number	Interface	V <sub>CM</sub> (V)	Input Offset (Max) (μV)	Input Offset (Typ) (μV/°C)	Gain Error (Max) (%)	Gain Error (Typ) (ppm/°C)	CMRR (Typ) (dB)	VDD (V)	I <sub>a</sub> (Typ) (μA)	Resolution (Typ) (bits)	Shunt Range (Typ) (mV)	Temp Sensor	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	接口	输入共模电压	最大输入偏置电压	输入偏置电压典型温漂	最大增益误差	Shunt增益误差温漂	共模抑制比	供电电压	静态电流	分辨率	Shunt电压范围	温度传感器	工作温度范围	等级	封装	状态	竞品
NP44210CMSOP10	I <sup>2</sup> C or SMBus	0-26	50	0.16	0.1	50	140	2.7-5.5	350	12	±40/±80/±160/±320	N	-40-125	Industrial	MSOP-10	Sample	INA220, TPA620
NP44220CMSOP10	I <sup>2</sup> C or SMBus	0-36	±2.5	0.02	0.1	20	160	2.7-5.5	330	16	±81.69	N	-40-125	Industrial	MSOP-10	Production	INA226, SQ52201, TPA626
NP44230LDMSOP10	I <sup>2</sup> C or SMBus	0-36	±2.5	0.02	0.1	20	160	2.7-5.5	340	16	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA226, INA220, SQ52201, TPA626
NP44230MDMSOP10	I <sup>2</sup> C or SMBus	0-36	±2.5	0.02	0.1	20	160	2.7-5.5	340	20	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA226+, INA228-
NP44230HDMSOP10	I <sup>2</sup> C or SMBus	0-65	±2.5	0.02	0.1	20	168	2.7-5.5	340	16	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA226+, INA228-
NP44230PDMSOP10	I <sup>2</sup> C or SMBus	0-65	±2.5	0.02	0.1	20	168	2.7-5.5	340	20	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA226, INA228
NP44240LDMSOP10	I <sup>2</sup> C or SMBus	-5-65	±2.5	0.02	0.1	30	168	2.7-5.5	340	16	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	
NP44240MDMSOP10	I <sup>2</sup> C or SMBus	-5-65	±2.5	0.02	0.1	30	168	2.7-5.5	340	20	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	
NP44250KDMSOP10	SPI	0-36	±2.5	0.02	0.1	20	160	2.7-5.5	340	16	±81.69/±163.37	N	-40-125	Industrial	MSOP-10	Sample	INA226 (SPI version)
NP44250LDMSOP10	SPI	0-36	±2.5	0.02	0.1	20	160	2.7-5.5	340	16	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA229-
NP44250MDMSOP10	SPI	0-36	±2.5	0.02	0.1	20	160	2.7-5.5	340	20	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA229-
NP44250HDMSOP10	SPI	0-65	±2.5	0.02	0.1	20	168	2.7-5.5	340	16	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA239-
NP44250PDMSOP10	SPI	0-65	±2.5	0.02	0.1	20	168	2.7-5.5	340	20	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	INA229-
NP44260LDMSOP10	SPI	-5-65	±2.5	0.02	0.1	30	168	2.7-5.5	340	16	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	
NP44260MDMSOP10	SPI	-5-65	±2.5	0.02	0.1	30	168	2.7-5.5	340	20	±81.69/±163.37	Y	-40-125	Industrial	MSOP-10	Production	

## Special Amplifier 特殊放大器

Order Number	Input Common-mode Voltage (V)	Max Offset Voltage (mV)	Input Offset Drift (Typ) ( $\mu\text{V}/^{\circ}\text{C}$ )	Gain Error (Max) (%)	Gain Drift (ppm/ $^{\circ}\text{C}$ )	CMRR (Typ) (dB)	Bandwidth (kHz)	Vs (V)	IQ (Typ) ( $\mu\text{A}$ )	OP. Temp ( $^{\circ}\text{C}$ )	Rating	Package Option	Status	Competitor
供货型号	输入共模电压	最大偏置电压	输入偏置电压典型温漂	最大增益误差	增益温漂	共模抑制比	带宽	供电电压	静态电流	工作温度范围	等级	封装	状态	竞品
NP42910ASOIC8	$\pm 275\text{V}$	0.85	$\pm 1$	$\pm 0.035$	3	100	240	4-40	570	-40-125	Industrial	SOIC-8	Production	INA149, AD629, LT1990
NP42920ASOIC8	$\pm 275\text{V}$	1	$\pm 1$	$\pm 0.05$	5	100	110	4-40	200	-40-125	Industrial	SOIC-8	Sample*	AD8479, TPA9151

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## Reference 电压基准

Order Number	Voltage (Typ) (V)	I <sub>Q</sub> (Typ) (μA)	Initial Accuracy (Typ) (%)	Temp Drift -40 - 125°C (Typ) (ppm/°C)	Temp Drift -40 - 125°C (Max) (ppm/°C)	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	输出电压	静态电流	初始精度	温度漂移	温度漂移	特性	工作温度范围	等级	封装	状态	竞品
NP12112QSOT233	1.25	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample*	
NP12118QSOT233	1.8	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12120QSOT233	2.048	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12125QSOT233	2.5	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12130QSOT233	3	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12133QSOT233	3.3	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12140QSOT233	4.096	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12145QSOT233	4.5	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12150QSOT233	5	50	0.05	5	20		-40-125	Auto	SOT23-3	Sample	
NP12312SOT233	1.25	50	0.05	5	20		-40-125	Industrial	SOT23-3	Sample*	REF31
NP12318SOT233	1.8	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	
NP12320SOT233	2.048	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	REF31
NP12325SOT233	2.5	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	REF31, MAX61, MAX6035
NP12330SOT233	3	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	REF31, MAX6035
NP12333SOT233	3.3	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	REF31
NP12340SOT233	4.096	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	REF31, MAX61
NP12345SOT233	4.5	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	MAX61
NP12350SOT233	5	50	0.05	5	20		-40-125	Industrial	SOT23-3	Production	MAX61, MAX6035

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## Reference 电压基准

Order Number	Vin (V)	Voltage (Typ) (V)	IQ (Typ) (μA)	Initial Accuracy (Typ) (%)	Temp Drift -40 - 125°C (Typ) (ppm/°C)	Temp Drift -40 - 125°C (Max) (ppm/°C)	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	输入电压	输出电压	静态电流	初始精度	温度漂移	温度漂移	特性	工作温度范围	等级	封装	状态	竞品
NP13445SOIC8	20V	4.5	800	0.05	2	TBD		-40-125	Industrial	SOIC-8	Sample*	REF5045
NP13450SOIC8	20V	5.0	800	0.05	2	TBD		-40-125	Industrial	SOIC-8	Sample*	REF5050
NP13425SOIC8	20V	2.5	800	0.05	2	TBD		-40-125	Industrial	SOIC-8	Sample*	REF5025

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## LDO 线性稳压器

Order Number	Vin Range (V)	Vout_range (V)	Vdropout @Imax (mV)	Iout Max (mA)	PSRR (dB)	RMS Noise ( $\mu$ Vrms)	IQ (Typ) ( $\mu$ A)	OP. Temp ( $^{\circ}$ C)	Rating	Package	Status	Competitor
供货型号	输入电压范围	输出电压	输出压差	最大输出电流	电源抑制比	均方根噪声	静态电流	工作温度范围	等级	封装	状态	竞品
NP11510PCSOT-12	2.2-5.5	1.2	150	250	70	15.5	12	-40-125	Industrial	SOT23-5	Production	ADP151, LP5907, TPL730
NP11510PCSOT-18	2.2-5.5	1.8	150	250	70	15.5	12	-40-125	Industrial	SOT23-5	Production	ADP151, LP5907, TPL730
NP11510PCSOT-25	2.2-5.5	2.5	150	250	70	15.5	12	-40-125	Industrial	SOT23-5	Production	ADP151, LP5907, TPL730
NP11510PCSOT-30	2.2-5.5	3.0	150	250	70	15.5	12	-40-125	Industrial	SOT23-5	Production	ADP151, LP5907, TPL730
NP11510PCSOT-33	2.2-5.5	3.3	150	250	70	15.5	12	-40-125	Industrial	SOT23-5	Production	ADP151, LP5907, TPL730
NP11510LCSOT-11-50	2.2-5.5	1.1-5.0	85	150	70	15.5	12	-40-125	Industrial	SOT23-5	Sample*	ADP151, LP5907, TPL730
NP11510MCSOT-11-50	2.2-5.5	1.1-5.0	120	200	70	15.5	12	-40-125	Industrial	SOT23-5	Sample*	ADP151, LP5907, TPL730
NP11510PCSOT-11-50	2.2-5.5	1.1-5.0	150	250	70	15.5	12	-40-125	Industrial	SOT23-5	Sample*	ADP151, LP5907, TPL730

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## Transform Driver 变压器驱动器

Order Number	CH (#)	Vin (V)	EN	Soft-Start	Output Power (Max) (W)	Drive Current (Max) (mA)	Switching Frequency (kHz)	EMI Improvement	External Clock	New Protection	OP. Temp (°C)	Rating	Package Option	Status	Competitor
供货型号	通道	输入电压	使能	软启动	最大输出功率	主边最大驱动电流	开关频率	EMI提升	外部时钟	新保护功能	工作温度范围	等级	封装	状态	竞品
NP18810BSOT235	1	2.5-5.5	No	Yes	1	500	300-500	Spread Spectrum	Support	UVLO OTP	-40-125	Industrial	SOT23-5	Production	SN6501,ZCC6501,SCM1212B
NP18820BSOT236	1	2.5-5.5	Yes	Yes	1	500	300-500	Spread Spectrum	Support	UVLO OTP	-40-125	Industrial	SOT23-6	Production	SN6505b,SGM46000,MAX13253,MAX256, MAX845
NP18810QBSOT235	1	2.5-5.5	No	Yes	1	500	300-500	Spread Spectrum	Support	UVLO OTP	-40-125	Auto	SOT23-5	Production	SN6501-Q1, SCM1212B

## Gate Driver 栅极驱动

Order Number	Number of Half-Bridges	VM Max (V)	RDS(ON) (mΩ)	ISLEEP (Typ) (μA)	Control Mode	Control Interface	Gate Drive Current Settings	Current-Shunt Amplifier Gains (V/V)	Features	Offline Diagnostic	OP. Temp (°C)	Rating	Package Option	Status	Competitor
供货型号	半桥数量	最大输入电压	导通电阻	睡眠电流	控制模式	控制接口	栅极驱动电流挡位	电流采样运放增益	特性	离线负载诊断	工作温度范围	等级	封装	状态	竞品
NP86720QAQFN32	2	55	NA	3.4	PH/EN, independent PWM Standard PWM	Hardware	6	19.8	current regulation, low-side CSA, Smart gate driver	No	-40-125	Auto	QFN-32	Production	DRV8701-Q1 DRV8702-Q1 A3921
NP86730QAQFN32	2	55	NA	3.4	PH/EN, independent PWM Standard PWM	SPI	8	10/19.8/39.4/78	current regulation, low-side CSA, Smart gate driver	No	-40-125	Auto	QFN-32	Production	DRV8703-Q1, DRV8705-Q1 DRV8706-Q1,
NP86740QAQFN32	2	55	NA	3.4	PH/EN, independent PWM Standard PWM	SPI	8	9/18.8/38.4/77	current regulation, low-side CSA, Smart gate driver	Yes	-40-125	Auto	QFN-32	Production	MLX83100 A3922, A3924, BD16952
NP86720DQAQFN32	1	55	NA	3.4	PH/EN, independent PWM Standard PWM	Hardware	6	19.8	current regulation, low-side CSA, Smart gate driver	No	-40-125	Auto	QFN-32	Sample*	DRV8702D-Q1
NP86730DQAQFN32	1	55	NA	3.4	PH/EN, independent PWM Standard PWM	SPI	8	10/19.8/39.4/78	current regulation, low-side CSA, Smart gate driver	No	-40-125	Auto	QFN-32	Sample*	DRV8703D-Q1
NP867088QAQFN48	8	40	NA	6	3 PWM or 4 PWM	SPI	16	10/20/40/80	Inline	Yes	-40-125	Auto	QFN-48	Production	TLE92018, DRV8718
NP867084QAQFN48	4	40	NA	6	3 PWM	SPI	16	10/20/40/80	Inline	Yes	-40-125	Auto	QFN-48	Sample	TLE92104, DRV8714

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# Automotive Smart Driver 汽车智能驱动



## High Side Driver 高边驱动

Order Number	Number of Channel	25°C RDS(ON) (typ) (mΩ)	125°C RDS(ON) (typ) (mΩ)	Iload (typ) (A)	Istandby (max) (μA)	Control Interface	Short-Circuit Current (typ) (A)	IOUT/ISENSE (typ)	Reverse On	Offline Diagnostic	Features	OP. Temp (°C)	Package Option	Rating	Status	Competitor
供货型号	通道数	25°C导通电阻	125°C导通电阻	典型负载电流	待机电流	控制接口	短路保护电流	电流镜比例	电池反接自动开启	离线负载诊断	功能	工作温度范围	封装	等级	状态	竞品
NPH770215QASSOP16P	2	14.5	24.7	5	0.1	Hardware	40	2950	Yes	Yes	NA	-40-125	SSOP16PP	Auto	Production	VND7E025,VND7020, VND9016
NPH770215QASSOP14P	2	14.5	24.7	5	0.1	Hardware	40	3700	Yes	Yes	NA	-40-125	SSOP14PP	Auto	Production	BTS7020-2, BTS7030-2
NPH770220QASSOP16P	2	20	33	4.5	0.1	Hardware	30	2800	Yes	Yes	NA	-40-125	SSOP16PP	Auto	Production	VND9025,VND7030
NPH770220QASSOP14P	2	20	33	4.5	0.1	Hardware	30	2800	Yes	Yes	NA	-40-125	SSOP14PP	Auto	Production	BTS7040-2
NPH770240QASSOP16P	2	35	65	3	0.1	Hardware	20	1340	Yes	Yes	NA	-40-125	SSOP16PP	Auto	Production	VND7E050,VND7050, VND7E040,VND7040
NPH770240QASSOP14P	2	36	65	3	0.1	Hardware	20	1340	Yes	Yes	NA	-40-125	SSOP14PP	Auto	Production	BTS7080-2, BTS7050-2
NPH770280QASSOP16P	2	40	80	2	0.1	Hardware	15	1200	Yes	Yes	NA	-40-125	SSOP16PP	Auto	Production	VND7140
NPH770280QASSOP14P	2	40	80	2	0.1	Hardware	15	1200	Yes	Yes	NA	-40-125	SSOP14PP	Auto	Production	BTS7200-2, BTS7120-2
NPH77008QASSOP16P	1	6.2	9.5	11	0.1	Hardware	70	5900	Yes	Yes	NA	-40-125	SSOP16PP	Auto	Production	VN7E010, VN7008, VN9008, VN9012
NPH77008QASSOP14P	1	8.2	12	10	0.1	Hardware	60	5450	Yes	Yes	NA	-40-125	SSOP14PP	Auto	Production	BTS7008-1epa
NPH77008MQASSOP16P	1	6.2	9.5	11	0.1	Hardware	70	5900	Yes	Yes	Multi-Sense	-40-125	SSOP16PP	Auto	Production	VN7010, VN7016
NPH77008PQASSOP14P	1	6.4	9.7	11	0.1	Hardware	70	5450	Yes	Yes	NA	-40-125	SSOP14PP	Auto	Production	BTS7008-1EPP
NPH77015QASSOP16P	1	15	25	5	0.1	Hardware	40	2950	Yes	Yes	Multi-Sense	-40-125	SSOP16PP	Auto	Production	
NPH77015QASSOP14P		17.2	25	5	0.1	Hardware	40	2800	Yes	Yes	NA	-40-125	SSOP14PP	Auto	Production	
NPH77040MQASSOP16P	1	35	TBD	4	0.1	Hardware	20	1340	Yes	Yes	Multi-Sense	-40-125	SSOP16PP	Auto	Sample	VN7040, VN7050
NPH77080MQASSOP16P	1	35	TBD	2.8	0.1	Hardware	15	1200	Yes	Yes	Multi-Sense	-40-125	SSOP16PP	Auto	Sample	VN7140

## Sigma-Delta ADC 模数转换

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Interface	PGA	Temp. Sensor	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	分辨率	数据输出速率	接口	程控增益	温度传感器	特性	工作温度范围	等级	封装	状态	竞品
NP21110AMSOP10	2(4)	12	3300	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Industrial	MSOP10	Sample	ADS1015
NP21110AQFN10	2(4)	12	3300	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Industrial	QFN10	Sample*	ADS1015
NP21110QAMSOP10	2(4)	12	3300	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Auto	MSOP10	Sample	ADS1015Q
NP21120AMSOP10	2(4)	12	3300	SPI	8/4/2/1/0.5/0.33	Yes		-40-125	Industrial	MSOP10	Sample	ADS1018
NP21120AQFN10	2(4)	12	3300	SPI	8/4/2/1/0.5/0.33	Yes		-40-125	Industrial	QFN10	Sample*	ADS1018
NP21120QAMSOP10	2(4)	12	3300	SPI	8/4/2/1/0.5/0.33	Yes		-40-125	Auto	MSOP10	Sample	ADS1018
NP21150QAMSOP10	1	12	3300	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Auto	MSOP10	Sample	ADS1014Q
NP21150AMSOP10	1	12	3300	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Industrial	MSOP10	Sample	ADS1014
NP21150AQFN10	1	12	3300	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Industrial	QFN10	Sample*	ADS1014
NP21170AMSOP10	1	12	3300	I <sup>2</sup> C	1	No		-40-125	Industrial	MSOP10	Sample	ADS1013
NP21170AQFN10	1	12	3300	I <sup>2</sup> C	1	No		-40-125	Industrial	QFN10	Sample*	ADS1013
NP21170QAMSOP10	1	12	3300	I <sup>2</sup> C	1	No		-40-125	Auto	MSOP10	Sample	ADS1013Q
NP21111AMSOP10	2(4)	16	860	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Industrial	MSOP-10	Production	ADS1115, SGM58031
NP21111QAMSOP10	2(4)	16	860	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Auto	MSOP-10	Production	ADS1115, SGM58032
NP21111AQFN10	2(4)	16	860	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No		-40-125	Industrial	QFN-10	Production	ADS1115, SGM58033
NP21121AMSOP10	2(4)	16	860	SPI	8/4/2/1/0.5/0.33	Yes		-40-125	Industrial	MSOP-10	Production	ADS1118
NP21121QAMSOP10	2(4)	16	860	SPI	8/4/2/1/0.5/0.33	Yes		-40-125	Auto	MSOP-10	Production	ADS1118
NP21121AQFN10	2(4)	16	860	SPI	8/4/2/1/0.5/0.33	Yes		-40-125	Industrial	QFN-10	Production	ADS1118
NP21131AMSOP10	2(4)	16	860	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	MSOP-10	Production	
NP21141AMSOP10	2(4)	16	3571	SPI	8/4/2/1/0.5/0.33	Yes	50/60 Rejection	-40-125	Industrial	MSOP-10	Production	
NP21112AMSOP10	2(4)	20	3571	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	MSOP-10	Production	
NP21112AQFN10	2(4)	20	3571	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	QFN-10	Sample	

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## Sigma-Delta ADC 模数转换

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Interface	PGA	Temp. Sensor	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	分辨率	数据输出速率	接口	程控增益	温度传感器	特性	工作温度范围	等级	封装	状态	竞品
NP21122AMSOP10	2(4)	20	3571	SPI	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	MSOP-10	Production	ADS1230
NP21122QAMSOP10	2(4)	20	3571	SPI	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Auto	MSOP-10	Production	ADS1230
NP21122AQFN10	2(4)	20	3571	SPI	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	QFN-10	Sample	AD7781
NP21182AMSOP10	2(4)	20	7143	SPI	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	MSOP-10	Sample*	AD7703
NP21182AQFN10	2(4)	20	7143	SPI	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	QFN-10	Sample*	MAX11205/6/7/8/9
NP21152AMSOP10	2(4)	20	3571	I <sup>2</sup> C	8/4/2/1/0.5/0.33	Yes	50/60 Rejection	-40-125	Industrial	MSOP-10	Production	
NP21162AMSOP10	2(4)	20	3571	SPI	8/4/2/1/0.5/0.33	Yes	50/60 Rejection	-40-125	Industrial	MSOP-10	Production	AD7785
NP21152AQFN10	2(4)	20	3571	I <sup>2</sup> C	8/4/2/1/0.5/0.33	Yes	50/60 Rejection	-40-125	Industrial	QFN-10	Sample*	
NP21162AQFN10	2(4)	20	3571	SPI	8/4/2/1/0.5/0.33	Yes	50/60 Rejection	-40-125	Industrial	QFN-10	Sample*	
NP21113AQFN10	2(4)	20	440	I <sup>2</sup> C	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	QFN-10	Sample	
NP21123AQFN10	2(4)	20	440	SPI	8/4/2/1/0.5/0.33	No	50/60 Rejection	-40-125	Industrial	QFN-10	Sample	
NP21132AMSOP10	2(4)	20	3571	Daisy Chain	8/4/2/1/0.5/0.33	Yes	50/60 Rejection	-40-125	Industrial	MSOP-10	Sample*	

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## Sigma-Delta ADC 模数转换

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Interface	PGA	Temp. Sensor	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	分辨率	数据输出速率	接口	程控增益	温度传感器	特性	工作温度范围	等级	封装	状态	竞品
NP21521AQFN20	3(6)	24	30k	SPI	1/2/4/8/16/32/64	Yes		-40-125	Industrial	QFN-20	Sample*	
NP2151A3QFN20	3(5)	24	30k	SPI	1/2/4/8/16/32/64	Yes		-40-125	Industrial	QFN-20	Sample*	
NP2151A4SOP20	4(4)	24	20k	SPI	1	No		-40-85	Industrial	SOP-20	Sample	ADS1254E
NP21551ASOP20	1(2)	24	60k	SPI	1/2/4/8/16/32/64/128	Yes	50/60 Rejection	-40-125	Industrial	SOP-20	Production	ADS1255, SG58600SOP
NP21561ASOP28	4(8)	24	60k	SPI	1/2/4/8/16/32/64/128	Yes	50/60 Rejection	-40-125	Industrial	SOP-28	Production	ADS1256, SG58601SOP
NP21571AQFN20	2	24	60k	SPI	1/2/4/8/16/32/64/128	Yes	50/60 Rejection	-40-125	Industrial	QFN-20	Sample	ADS1257, SG58602QFN
NP2152A0QFN28	4(8)	24	60k	SPI	1/2/4/8/16/32/64	No		-40-125	Industrial	QFN-28	Sample*	SG58601, SG58601QFN
NP21512AQFN20	2(4)	24	30k	SPI	1/2/4/8/16/32/64	Yes	50/60 Rejection	-40-125	Industrial	QFN-20	Sample*	SG58600QFN
NP21522AQFN20	2(4)	24	30k	SPI	1/2/4/8/16/32/64	Yes	50/60 Rejection	-40-125	Industrial	QFN-20	Sample*	
NP213022AQFN32	2	24	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-125	Auto	QFN-32	Production	
NP213022AQFN32	2	24	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-85	Industrial	QFN-32	Production	
NP21302AQFN32	1	24	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-125	Auto	QFN-32	Production	
NP21302AQFN32	1	24	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-85	Industrial	QFN-32	Production	
NP213012AQFN32	2	16	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-125	Auto	QFN-32	Sample*	
NP213012AQFN32	2	16	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-85	Industrial	QFN-32	Sample*	
NP21301AQFN32	1	16	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-125	Auto	QFN-32	Sample*	
NP21301AQFN32	1	16	16K	SPI	1/2/3/4/5/6/8/12	Yes	Synchronous sampling	-40-85	Industrial	QFN-32	Sample*	

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## Sigma-Delta ADC 模数转换

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Interface	PGA	Temp. Sensor	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	分辨率	数据输出速率	接口	可编程增益放大器	温度传感器	特性	工作温度范围	等级	封装	状态	竞品
NP213240AQFP64	4	24	125/8k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Sample	
NP2132066QFP64	6	24	125/8k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Sample	
NP2132088QFP64	8	24	125/8k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Sample	
NP213240ABGA64	4	24	125/8k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	BGA-64	Sample	
NP213260ABGA64	6	24	125/8k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	BGA-64	Sample	
NP2132088BGA64	8	24	125/8k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	BGA-64	Sample	
NP2132144QFP64	4	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Sample	
NP213261AQFP64	6	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Sample	
NP213281AQFP64	8	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Sample	
NP213241ABGA64	4	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	BGA-64	Sample	
NP213261ABGA64	6	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	BGA-64	Sample	
NP213281ABGA64	8	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	BGA-64	Sample	
NP213242AQFP64	4	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Production	ADS131E04
NP213262AQFP64	6	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Production	ADS131E06
NP213282AQFP64	8	24	1k/64k	SPI	1/2/4/8/12/24	Yes	Synchronous sampling	-40-125	Industrial	QFP-64	Production	ADS131E08

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## Sigma-Delta ADC 模数转换

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Interface	PGA	Temp. Sensor	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	分辨率	数据输出速率	接口	可编程增益放大器	温度传感器	特性	工作温度范围	等级	封装	状态	竞品
NP21802AQFN24	2	32	125	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-40-125	Industrial	QFN-24	Sample	
NP21812ATSOP24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes		-40-125	Industrial	TSSOP-24	Sample*	ADS1281
NP21822ATSOP28	2	32	4000	SPI	1/2/4/8/16/32/64	Yes		-40-125	Industrial	TSSOP-28	Sample	ADS1282
NP21832AQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes		-50-125	Industrial	QFN-24	Sample*	ADS1283
NP21842AQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes		-50-125	Industrial	QFN-24	Production	ADS1284
NP21852AQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-40-85	Industrial	QFN-24	Sample*	
NP21862AQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-40-85	Industrial	QFN-24	Production	
NP21872AQFN24	1	32	4000	SPI	1/2/4/8/16/32/64	Yes		-50-125	Industrial	QFN-24	Sample	ADS1287
NP21882AQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-40-85	Industrial	QFN-24	Sample*	
NP21892AQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-40-85	Industrial	QFN-24	Production	
NP21832QAQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes		-50-125	Auto	QFN-24	Sample*	ADS1283
NP21842QAQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes		-50-125	Auto	QFN-24	Sample*	ADS1284
NP21852QAQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-50-125	Auto	QFN-24	Sample*	
NP21862QAQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-50-125	Auto	QFN-24	Sample*	
NP21872QAQFN24	1	32	4000	SPI	1/2/4/8/16/32/64	Yes		-50-125	Auto	QFN-24	Sample*	ADS1287
NP21882QAQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-50-125	Auto	QFN-24	Sample*	
NP21892QAQFN24	2	32	4000	SPI	1/2/4/8/16/32/64	Yes	ALLCOM	-50-125	Auto	QFN-24	Sample	

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## SAR ADC 模数转换

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Interface	PGA	Sample Mode	Features	OP. Temp (°C)	Rating	Package	Status	Competitor
供货型号	通道	分辨率	数据输出速率	接口	可编程增益放大器	采样模式	特性	工作温度范围	等级	封装	状态	竞品
<b>NP232080AQFP64</b>	6	16	200K	SPI or parallel	0.5/1	Synchronous	±10V input range	-40-85	Industrial	QFP64	Sample	AD7606

## Bio-Medical ECG 生物医疗 ECG

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Respiration	Analog Pace	AC Lead-Off	Noise 150Hz G= 6 (uVpp)	Features	OP. Temp (°C)	Package	Rating	Status	Competitor
供货型号	通道	分辨率	数据输出速率	呼吸	模拟起搏器	交流断线检测	噪声	特性	工作温度范围	封装	等级	状态	竞品
NPA8932QAQFN32	2	24	125/16k	Y	Y		8.8	ERM, HPF, FIFO, CRC&ECC	-40-125	QFN-32	Auto	Production	
NPA8932AQFN32	2	24	125/8k	Y	Y	Y	8.6	ERM, HPF, FIFO, CRC&ECC	-40-85	QFN-32	Industrial	Production	
NPA8922QAQFN32	2	24	125/16k	Y	Y		8.8	CRC&ECC	-40-125	QFN-32	Auto	Production	
NPA8922AQFN32	2	24	125/8k	Y	Y	Y	8.6	CRC&ECC	-40-85	QFN-32	Industrial	Production	ADS1292R
NPA8912QAQFN32	2	24	125/16k		Y		8.8	CRC&ECC	-40-125	QFN-32	Auto	Production	
NPA8912AQFN32	2	24	125/8k		Y	Y	8.6	CRC&ECC	-40-85	QFN-32	Industrial	Production	ADS1292
NPA8902QAQFN32	1	24	125/8k				8.8	FIFO, CRC&ECC	-40-125	QFN-32	Auto	Production	
NPA8902AQFN32	1	24	125/8k			Y	8.6	FIFO, CRC&ECC	-40-85	QFN-32	Industrial	Production	ADS1291
NPA8921QAQFN32	2	16	125/16k				12	CRC&ECC	-40-125	QFN-32	Auto	Sample	
NPA8921AQFN32	2	16	125/8k			Y	12		-40-85	QFN-32	Industrial	Production	ADS1192
NPA8911QAQFN32	1	16	125/8k				12	CRC&ECC	-40-125	QFN-32	Auto	Sample	
NPA8911AQFN32	1	16	125/8k				12		-40-85	QFN-32	Industrial	Production	ADS1191
NPA8944AQFP64	4	24	250/32k	N	Y	Y	4.9	WCT, DAC	-40-125	QFP64	Industrial	Production	ADS1294, ADAS1000-3
NPA8964AQFP64	6	24	250/32k	N	Y	Y	4.9	WCT, DAC	-40-125	QFP64	Industrial	Production	ADS1296, ADAS1000-2, ADAS1000-1
NPA8984AQFP64	8	24	250/32k	N	Y	Y	4.9	WCT, DAC	-40-125	QFP64	Industrial	Production	ADS1298
NPA8994AQFP64	8	24	125/64k	N	Y	Y	4.9	WCT, DAC	-40-125	QFP64	Industrial	Production	
NPA8944ABGA64	4	24	250/32k	N	Y	Y	4.9	WCT, DAC	-40-125	BGA64	Industrial	Production	ADS1294, ADAS1000-3
NPA8964ABGA64	6	24	250/32k	N	Y	Y	4.9	WCT, DAC	-40-125	BGA64	Industrial	Production	ADS1296, ADAS1000-2, ADAS1000-1
NPA8984ABGA64	8	24	250/32k	N	Y	Y	4.9	WCT, DAC	-40-125	BGA64	Industrial	Production	ADS1298
NPA8994ABGA64	8	24	125/64k	N	Y	Y	4.9	WCT, DAC	-40-125	BGA64	Industrial	Production	
NPA8945ABGA64	4	24	250/32k	Y	Y	Y	4.9	RESP, WCT, DAC	-40-125	BGA64	Industrial	Production	ADS1294R, ADAS1000-4

## Bio-Medical ECG 生物医疗 ECG

Order Number	CH (#)	Resolution (Bit)	Output Data Rate	Respiration	Analog Pace	AC Lead-Off	Noise 150Hz G=6 (uVpp)	Features	OP. Temp (°C)	Package	Rating	Status	Competitor
供货型号	通道	分辨率	数据输出速率	呼吸	模拟起搏器	交流断线检测	噪声	特性	工作温度范围	封装	等级	状态	竞品
NPA8965ABGA64	6	24	250/32k	Y	Y	Y	4.9	RESP, WCT, DAC	-40-125	BGA64	Industrial	Production	ADS1296R, ADAS1000
NPA8985ABGA64	8	24	250/32k	Y	Y	Y	4.9	RESP, WCT, DAC	-40-125	BGA64	Industrial	Production	ADS1298R
NPA8995ABGA64	8	24	125/64k	Y	Y	Y	4.9	RESP, WCT, DAC	-40-125	BGA64	Industrial	Sample	
NPA8946AQFP64	4	24	125/32k	N	N	Y	1.6	DAC	-40-85	QFP64	Industrial	Production	ADS1299-4
NPA8966AQFP64	6	24	125/32k	N	N	Y	1.6	DAC	-40-85	QFP64	Industrial	Production	ADS1299-6
NPA8986AQFP64	8	24	125/32k	N	N	Y	1.6	DAC	-40-85	QFP64	Industrial	Production	ADS1299
NPA8946ABGA64	4	24	125/32k	N	N	Y	1.6	DAC	-40-85	BGA64	Industrial	Sample	ADS1299-4
NPA8966ABGA64	6	24	125/32k	N	N	Y	1.6	DAC	-40-85	BGA64	Industrial	Sample	ADS1299-6
NPA8986ABGA64	8	24	125/32k	N	N	Y	1.6	DAC	-40-85	BGA64	Industrial	Sample	ADS1299
NPA8943AQFP64	4	16	125/8k	N	Y	N	12	WCT	-40-85	QFP64	Industrial	Production	ADS1194
NPA8963AQFP64	6	16	125/8k	N	Y	N	12	WCT	-40-85	QFP64	Industrial	Production	ADS1196
NPA8983AQFP64	8	16	125/8k	N	Y	N	12	WCT	-40-85	QFP64	Industrial	Production	ADS1198 ADS130E08
NPA8943ABGA64	4	16	125/8k	N	Y	N	12	WCT	-40-85	BGA64	Industrial	Production	ADS1194
NPA8963ABGA64	6	16	125/8k	N	Y	N	12	WCT	-40-85	BGA64	Industrial	Production	ADS1196
NPA8983ABGA64	8	16	125/8k	N	Y	N	12	WCT	-40-85	BGA64	Industrial	Production	ADS1198 ADS130E08
NPA8942AQFP64	4	24	125/8k	N	Y	N	8	WCT, DAC	-40-85	QFP64	Industrial	Production	ADS1292 x 2
NPA8962AQFP64	6	24	125/8k	N	Y	N	8	WCT, DAC	-40-85	QFP64	Industrial	Production	ADS1292 x 3
NPA8982AQFP64	8	24	125/8k	N	Y	N	8	WCT, DAC	-40-85	QFP64	Industrial	Production	ADS1292 x 4
NPA8942ABGA64	4	24	125/8k	N	Y	N	8	WCT, DAC	-40-85	BGA64	Industrial	Production	ADS1292 x 2
NPA8962ABGA64	6	24	125/8k	N	Y	N	8	WCT, DAC	-40-85	BGA64	Industrial	Production	ADS1292 x 3
NPA8982ABGA64	8	24	125/8k	N	Y	N	8	WCT, DAC	-40-85	BGA64	Industrial	Production	ADS1292 x 4
NPA8952ABGA64	4	24	125/8k	Y	Y	N	8	RESP, WCT, DAC	-40-85	BGA64	Industrial	Sample	ADS1292R
NPA8972ABGA64	6	24	125/8k	Y	Y	N	8	RESP, WCT, DAC	-40-85	BGA64	Industrial	Sample	ADS1292R
NPA8992ABGA64	8	24	125/8k	Y	Y	N	8	RESP, WCT, DAC	-40-85	BGA64	Industrial	Sample	ADS1292R

## ClassD D类放大器

Order Number	Input	PVDD	Output Power (typ) (W)	Over-Current threshold (typ) (A)	Fs (typ) (kHz)	Rating	Package	Status	Competitor
供货型号	输入模式	供电电压	最大输出功率	过流保护门限	输入采样率	等级	封装	状态	竞品
NP476851ATSSOP28	Digital-Input	4.5V-21V	2*25W	6.5A	32k-192kHz	Consumer	TSSOP-28	Production	TAS5805M, ACM8625P
NP476851PATSSOP28	Digital-Input	4.5V-25V	2*25W	6.5A	32k-192kHz	Consumer	TSSOP-28	Production	TAS5805M, ACM8625M
NP476852AQFN32	Digital-Input	4.5V-25V	2*30W	6.5A	32k-192kHz	Consumer	QFN-32	Production	TAS5825M

## CAN 控制器局域网总线

Order Number	Vio	STB/Slient/NC	BUS Fault Voltagew (typ) (V)	Data Rate (Max) (MBPS)	Rating	Package	Status	Competitor
供货型号	Vio	STB/Slient/NC	总线报错电压	数据率	等级	封装	状态	竞品
NP551024VQASOIC8	VIO	STB	±58	5	Auto	SOIC-8	Sample	TJA1042T/3
NP551024GQSOIC8	NC	STB	±58	5	Auto	SOIC-8	Sample	TCAN1042G-Q1
NP551044VQASOIC8	VIO	STB	±42	5	Auto	SOIC-8	Sample	TJA1044GT/3,TCAN1044V-Q1
NP551044GQSOIC8	NC	STB	±42	5	Auto	SOIC-8	Sample	TJA1044T, TJA1044GT
NP551015VQASOIC8	VIO	Slient	±58	5	Auto	SOIC-8	Sample	TJA1051T/3
NP551015GQASOIC8	NC	Slient	±58	5	Auto	SOIC-8	Sample	TJA1051T
NP551024VASOIC8	VIO	STB	±58	5	Industrial	SOIC-8	Sample	TJA1042T/3
NP551024GSOIC8	NC	STB	±58	5	Industrial	SOIC-8	Sample	TCAN1042G
NP551044VASOIC8	VIO	STB	±42	5	Industrial	SOIC-8	Sample	TJA1044GT/3,TCAN1044V
NP551044GSOIC8	NC	STB	±42	5	Industrial	SOIC-8	Sample	TJA1044T, TJA1044GT
NP551015VASOIC8	VIO	Slient	±58	5	Industrial	SOIC-8	Sample	TJA1051T/3
NP551015GASOIC8	NC	Slient	±58	5	Industrial	SOIC-8	Sample	TJA1051T

## 晶圆

**NPW** 那浦微电子

型号	竞品型号
NP46320BW	OPA188
NP41120AW	AD620
NP42910AW	INA117,INA149
NP453025AW	OPA2171,OP284
NP46220BW	OP07,OP77
NP43204XCW	INA240,AD8418

**NPW**

那浦微电子



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