

# STMicroelectronics Amplifiers

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Life augmented

Amplifier ICs

STMicroelectronics

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AUDIO		◆ Surface Mount Device			For quantities greater than listed, call for quote.							
MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Description	Supply Voltage (V) (Max)	Output Power			Temperature Range (°C)	Price Each			
					Min/Typ (W)	@ (V)	Harm. Distort.		1	10	100	
511-STA2065N	STA2065N	TFBGA-372	HD-Radio base-band receiver	1.8	---	---	---	-40 to +85	36.84	33.33	28.00	
511-STA309A13TR	STA309A13TR	TQFP-64	8-CH DDX Digital Audio Processor	3.3	---	---	---	-40 to +150	4.73	4.28	3.60	
511-STA321	STA321	LQFP-64	4-CH Digital Audio FFX Driver System	3.6	0.041/---	3.3	0.30%	0 to +70	8.86	8.24	7.16	
511-STA333ML13TR	STA333ML13TR	PowerSSO-36	2-CH Sound Terminal Microless 24B	12	---	16	0.20%	0 to +70	4.65	4.17	3.39	
511-STA333W13TR	STA333W13TR	PowerSSO-EP	2.1-CH 40W FFX Audio System	20	---	16	18	0 to +70	4.68	4.23	3.55	
511-STA339BWS13TR	STA339BWS13TR	PowerSSO-36	2.1-Ch 40W high-efficiency digital audio system	4.5/21.5	---	16	---	-20 to +150	6.63	6.00	5.00	
511-STA339BWTR	STA339BWTR	PowerSSO-36	2.1-Ch high-efficiency digital audio system	5/26	---	16	---	-20 to +150	7.16	6.48	5.40	
511-STA350BWTR	STA350BWTR	PowerSSO-36	2.1-Ch high-efficiency digital audio system	5/26	---	27	---	-20 to +150	9.15	8.28	6.90	
511-STA369BWTR	STA369BWTR	PowerSSO-36	2.1-CH Hi-Efficiency Digital Audio System	26	---	20	---	-20 to +150	12.80	11.60	10.80	
511-STA381BWSTR	STA381BWSTR	VOFN-48	2.1-CH Hi-Efficiency Digital Audio System	25.5	---	20	---	0 to +150	10.32	8.44	7.64	
511-STA510FTR	STA510FTR	PowerSSO-36	44V 5.5A quad power half-bridge	---	44	---	100	0 to +70	6.63	6.00	5.00	
511-STA516B13TR	STA516B13TR	PowerSSO-36	2.1-ch digital audio system	65	---	200	51	0 to +90	8.68	7.85	6.60	
511-STA51813TR	STA51813TR	PowerSSO-36	40V 3.5A Quad Amp Half-Bridge BCD	40	---	24	30	-40 to 90	5.26	4.76	4.00	
511-STA533WF13TR	STA533WF13TR	PowerSSO-36	2-channel high-efficiency digital audio	23	---	20	18	0 to +70	4.47	4.04	3.40	
511-STA540	STA540	Multiwatt-15V	4x13W dual/quad power amplifier	8/22	---	34	22	0 to +70	5.86	5.23	4.29	
511-STA540SAN	STA540SAN	Clipwatt-15	4x10W dual/quad power amplifier	22	---	10	17	0 to +70	5.26	4.66	3.76	
511-STA559BW13TR	STA559BW13TR	PowerSSO-36	18-volt, 3-amp, quad power half-bridge	1.8	---	5.3	---	0 to +70	3.85	3.48	2.93	
511-TA680Q	TA680Q	LQFP-144	HD Radio? baseband receiver	16	---	100	---	-55 to +150	21.05	19.04	16.00	
511-TDA2003AH	TDA2003AH	Pentawatt-H	10W car radio audio amplifier	8/18	9/10	---	---	-40 to +150	1.26	1.11	.882	
511-TDA2003AV	TDA2003AV	Pentawatt-V	10W Car radio audio amplifier	-/40	5.6/20	---	20	-40 to +150	1.26	1.11	.882	
511-TDA2004R	TDA2004R	Multiwatt-11	2x12W 2-Ch. Stereo Amplifier	8/18	6.6/5	14.4	10%	-40 to +150	3.22	2.86	2.34	
511-TDA2005R	TDA2005R	Pentawatt-V	20W bridge/stereo amplifier for car radio	14.4	18/20	---	---	-40 to +150	4.25	3.74	3.05	
511-TDA2030AV	TDA2030AV	Pentawatt-V	Hi-Fi amplifier and 35W driver	±6/±22	15/18	19	0.50%	-40 to +150	1.62	1.45	1.16	
511-TDA2030H	TDA2030H	Pentawatt-H	Hi-Fi amplifier and 35W driver	±6/±22	15/18	19	0.50%	-40 to +150	3.05	2.68	2.20	
511-TDA2040V	TDA2040V	Pentawatt-V	Hi-Fi, high output current with low distortion	2.5/20	20/22	16	0.50%	-40 to +150	3.66	3.26	2.65	
511-TDA2050V	TDA2050V	Pentawatt-V	Hi-Fi power amplifier	±4.5/±25	24/28	22	0.50%	-40 to +150	2.88	2.56	2.08	
511-TDA2052V	TDA2052V	Heptawatt-7V	Hi-Fi audio power amplifier with mute and standby	±6/±25	35/40	22	10%	0 to +70	3.36	2.95	2.42	
511-TDA7233D013TR	TDA7233D013TR	SO-8	Audio amplifier with mute	1.8/15	---	1.9	12	-40 to +150	1.00	.885	.726	
511-TDA7266SA	TDA7266SA	Clipwatt-15	7x7W dual bridge amplifier	18	6.3/7	11	10%	0 to +70	2.22	1.95	1.60	
511-TDA7388A	TDA7388A	Flexiwatt-27	4x42W mono bridge car radio amplifier	18	25/27	14.4	0.10%	-55 to +150	9.74	8.76	7.20	
511-TDA7498ETR	TDA7498ETR	PowerSSO-36	160W mono BTL class D audio amplifier	40	---	160	---	0 to +70	17.33	14.36	12.38	
511-TDA7492MV13TR	TDA7492MV13TR	PowerSSO-36	50W mono BTL class D audio amplifier	10/26	---	50	25	-40 to +150	5.27	4.63	3.80	
511-TDA7293V	TDA7293V	Multiwatt-15V	DMOS audio amplifier with mute/standby	12/50	90/100	29	0.01%	0 to +70	5.85	5.22	4.28	
511-TDA7294HS	TDA7294HS	Multiwatt-15	1-CH 100W stereo amplifier	40	60/70	35	0.50%	0 to +70	9.72	8.53	7.00	
511-TDA7297SA	TDA7297SA	Clipwatt-15	100W DMOS audio amplifier	18	8.3/10	13	10%	-40 to 150	1.86	1.50	1.35	
511-E-TDA7384A	E-TDA7384A	Flexiwatt-25	4x35W Quad bridge amplifier for car radio	---	18	38/42	10	-55 to +150	9.20	8.27	6.78	
511-ETD7385	ETD7385	Flexiwatt-25	4x37W quad bridge car radio amplifier	---	18	21/23	---	-55 to +150	8.75	7.87	6.47	
511-TDA7388	TDA7388	Flexiwatt-25	4x41W Quad bridge amplifier for car radio	---	18	22/26	14.4	10%	-55 to +150	9.20	8.27	6.78
511-TDA7418TR	TDA7418TR	SO-20	3 band car audio processor	10	---	---	---	-40 to +85	4.31	3.78	3.10	
511-TDA7419	TDA7419	SO-28	3 band car audio processor	10	---	---	---	-40 to +85	6.22	5.55	4.54	
511-TDA7498LTR	TDA7498LTR	PowerSSO-36	80W+80W dual BTL class D audio amplifier	14/36	---	65	32	-20 to +85	8.33	7.31	6.00	
511-TDA7498TR	TDA7498TR	PowerSSO-36	100W+100W dual BTL class D audio amplifier	14/39	---	80	---	-40 to +85	9.44	8.29	6.80	
511-TDA7572	TDA7572	QUAD-64	200W mono bridge PWM amplifier	58	---	---	---	-55 to +150	15.00	13.63	11.59	
511-TEA2025B	TEA2025B	PWRDIP-12x2+2	Stereo, high channel separation, dual or bridge	3/12	0.7/1	6	10%	-40 to +150	1.13	.99	.77	
511-TS472IQT	TS472IQT	FlipChip-12	Very low noise microphone preamplifier w/bias	2.2/5.5	---	---	---	-40 to +85	2.17	1.96	1.56	
511-TS4871ID	TS4871ID	SO-8	Stereo headphone power amp with standby mode	2.5/5.5	---	1.0	---	-40 to +85	1.23	1.11	.887	

HIGH SIDE CURRENT SENSE		◆ Surface Mount Device			For quantities greater than listed, call for quote.								
MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Gain (V/V)	Gain Accuracy (%)	Input Bias Current (Max)	Supply Voltage		Slew Rate (V/uS)(Typ)	Supply Current (µA)(Max)	Temperature Range (°C)	Price Each		
						(Min./V)	(Max./V)				1	10	100
511-TSC101CILT	TSC101CILT	SOT-23-5	100	±2.5	8µA	4	2.4	0.9	300	-40 to +125	2.06	1.83	1.58
511-TSC102AIPT	TSC102AIPT	TSSOP-8	20	±1.5	7µA	3.5	2.5	0.45	300	-	2.10	1.80	1.47

OPERATIONAL AMPLIFIERS		◆ Surface Mount Device			For quantities greater than listed, call for quote.								
MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Single, Dual, Quad	Input Offset Voltage (mV)(Max)	Input Bias Current (Max)	Gain Bandwidth Product (MHz)(Typ)	Slew Rate (V/uS)(Typ)	Supply Voltage (V) (Max)	Supply Current (mA) (Max)	Temperature Range (°C)	Price Each		
											1	10	100
<b>General Purpose</b>													
511-UA741CD	UA741CD	SO-8	S	5.0	100nA	1.00	0.50	±22	2.80	0 to +70	.58	.544	.438
511-UA741CN	UA741CN	DIP-8	S	5.0	100nA	1.00	0.50	±22	2.80	0 to +70	.30	.29	.23
511-UA741ID	UA741ID	SO-8	S	5.0	100nA	1.00	0.50	±22	2.80	-40 to +105	.77	.724	.583
511-UA741IDT	UA741IDT	SO-8	S	5.0	100nA	1.00	0.50	±22	2.80	-40 to +105	.57	.531	.427
511-UA741IN	UA741IN	DIP-8	S	5.0	100nA	1.00	0.50	±22	2.80	-40 to +105	.77	.724	.583
511-LMX321ICLT	LMX321ICLT	SC-70-5	S	6.0	110nA	1.30	0.70	±5.5	12.00	-40 to +125	.99	.87	.69
511-LMX321ILT	LMX321ILT	SOT-23-5	S	6.0	110nA	1.30	0.60	±5.5	12.00	-40 to +125	.99	.87	.69
511-LM301AN	LM301AN	DIP-8	S	7.5	250nA	1.00	0.50	±22	3.00	0 to +70	.88	.779	.602
511-L165V	L165V	Pentawatt	S	10.0	1µA	-	8.00	±18	-	-40 to +150	1.71	1.54	1.23
511-TL081CD	TL081CD	SO-8	S	10.0	200pA	4.00	16.00	±18	2.50	0 to +70	.53	.448	.339
511-TL081CN	TL081CN	DIP-8	S	10.0	200pA	4.00	16.00	±18	2.50	0 to +70	.56	.474	.358
511-MC1458D	MC1458D	SO-8	D	5.0	500nA	1.00	0.80	±22	5.00	0 to +70	.59	.50	.36
511-MC1458IN	MC1458IN	DIP-8	D	5.0	500nA	1.00	0.80	±22	5.00	-40 to +105	.65	.56	.43
511-MC1458N	MC1458N	DIP-8	D	5.0	500nA	1.00	0.80	±22	5.00	0 to +70	.48	.428	.334
511-LMX358IDT	LMX358IDT	SOT-23-5	D	6.0	110nA	1.30	0.60	±5.5	12.00	-40 to +125	1.37	1.21	.962
511-LMX358IST	LMX358IST	SOT-23-5	D	6.0	110nA	1.30	0.60	±5.5	12.00	-40 to +125	1.37	1.21	.962
511-TL082ACD	TL082ACD	SO-8	D	6.0	100pA	4.00	16.00	±18	2.50	0 to +70	.77	.651	.492
511-TL082ACN	TL082ACN	DIP-8	D	6.0	100pA	4.00	16.00	±18	2.50	0 to +70	.77	.651	.492
511-TL082CD	TL082CD	SO-8	D	10.0	100pA	4.00	16.00	±18	2.50	0 to +70	.56	.444	.333
511-TL082CN	TL082CN	DIP-8	D	10.0	100pA	4.00	16.00	±18	2.50	0 to +70	.49	.42	.32
511-TL082IN	TL082IN	DIP-8	D	10.0	100pA	4.00	16.00	±18	2.50	-40 to +105	.48	.459	.434
511-LM248DT	LM248DT	SO-14	Q	5.0	100nA	1.30	0.50	±22	3.60	-40 to +105	1.33	1.19	.947
511-LM248N	LM248N	DIP-14	Q	5.0	100nA	1.30	0.50	±22	3.60	-40 to +105	1.25	1.10	.85
511-LM348N	LM348N	DIP-14	Q	5.0	100nA	1.30	0.50	±22	3.60	0 to +70	.87	.75	.56
511-LMX324IDT	LMX324IDT	SOT-23-5	Q	6.0	110nA	1.30	0.60	±5.5	12.00	-40 to +125	.90	.80	.74
511-LMX324IPT	LMX324IPT	SOT-23-5	Q	6.0	110nA	1.30	0.60	±5.5	12.00	-40 to +125	1.64	1.45	1.14
511-TL084ACN	TL084ACN	DIP-14	Q	6.0	200pA	4.00	16.00	±18	2.50	0 to +70	.78	.67	.50
511-TL084CD	TL084CD	SO-14	Q	10.0	200pA	4.00	16.00	±18	2.50	0 to +70	.48	.42	.33
511-TL084CDT	TL084CDT	SO-14	Q	10.0	200pA	4.00	16.00	±18	2.50	0 to +70	.51	.40	.31
511-TL084CN	TL084CN	DIP-14	Q										