

# STMICROELECTRONICS Amplifiers

Products may be RoHS compliant. Check mouser.com for RoHS status.



Life-Cycle Extended

◆ Surface Mount Device  
For quantities greater than listed, call for quote.

## AUDIO

MOUSER STOCK NO.	STMicroelectronics Part No.	Package	Description	Supply Voltage (V) (Max.)	Output Power			Temperature Range (°C)	Price Each		
					Min./Typ. (W)	@ (V)	Harmon. Distort.		1	10	100
511-STA321MPLTR	STA321MPLTR	TQFP-64	Scalable Digital Microphone Processor	3.6	-	-	-	-40 to +150	6.29	5.66	4.65
511-STPA003CD-48X	STPA003CD-48X	Flexiwatt-27	4x52W Quad Bridge Power Amplifier	18.0	-/50	14.4	0.02%	-40 to +105	11.39	10.29	8.52
511-STPA003OD-4WX	STPA003OD-4WX	Flexiwatt-25	4x52W Quad Bridge Power Amplifier	18.0	-/50	14.4	0.02%	-40 to +105	10.70	9.67	8.01
511-TDA2005R	TDA2005R	Multiwatt-11	20W Bridge/Stereo Amplifier for Car Radio	14.4	18/20	-	1%	-40 to +150	2.83	2.40	2.08
511-TDA7498ETR	TDA7498ETR	PowerSSO-36	160W Mono BTL Class D Audio Amplifier	40.0	-/160	-	10%	0 to +70	10.03	9.03	7.42
511-TDA7293V	TDA7293V	Multiwatt-15	DMOS Audio Amplifier with Mute/Standby	50.0	90/100	29.0	0.01%	0 to +70	6.33	5.38	4.66
511-TDA7294HS	TDA7294HS	Multiwatt-15	1-Ch 100W Stereo Amplifier	40.0	60/70	35.0	0.50%	0 to +70	6.98	6.31	5.22
511-TDA7388	TDA7388	Flexiwatt-25	4x41W Quad Bridge Amplifier for Car Radio	18.0	22/26	14.4	10%	-55 to +150	3.83	3.26	2.82
511-TDA7802	TDA7802	Flexiwatt-27	4-Ch Digital Quad Power	6.0	-/28	14.4	10%	-40 to +105	10.70	9.67	8.01
511-TS4721QT	TS4721QT	FlipChip-12	Very Low Noise Microphone Preamplifier with Bias	5.5	-	-	-	-40 to +85	1.21	1.03	.796

## HIGH SIDE CURRENT SENSE AMPLIFIERS

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MOUSER STOCK NO.	STMicroelectronics Part No.	Package	Gain (V/V)	Gain Accuracy (%)	Input Bias Current (µA) (Max.)	Supply Voltage		Slew Rate (V/µS) (Typ.)	Supply Current (µA) (Max.)	Temperature Range (°C)	Price Each		
						Min. (V)	Max. (V)				1	10	100
511-CS30CL	CS30CL	SOT-23-5L	100	2.5	8	4.0	24.0	0.9	165	-40 to +125	1.02	.871	.669
511-TSC101AIYLT	TSC101AIYLT	SOT-23	20	2.5	8	4.0	24.0	0.9	300	-40 to +125	1.90	1.62	1.29

## DUAL-LOW VOLTAGE POWER AMPLIFIER

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package	Supply Voltage (Min./Max.) (V)	Peak Output Current (A)	Total Power Dissipation (W)	Quiescent Drain Current (mA) (Max.)	Distortion (Typ.) (%)	Temperature Range (°C)	Price Each		
									1	10	100
511-TDA7294V	TDA7294V	Multiwatt-15	±10/±40	10	50	20	0.1	-40 to +70	6.62	5.11	5.11

## OPERATIONAL AMPLIFIERS

◆ Surface Mount Device  
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package	Single, Dual, Quad	Input Offset Voltage (mV) (Max.)	Input Bias Current (Max.)	Gain Bandwidth Product (MHz) (Typ.)	Slew Rate (V/µS) (Typ.)	Supply Voltage (V) (Max.)	Supply Current (µA) (Max.)	Temperature Range (°C)	Price Each		
											1	10	100
<b>General Purpose</b>													
◆ 511-TL084CDT	TL084CDT	SO-14	Quad	10.0	200pA	4.0	16.0	18.0	2500	0 to +70	.40	.336	.205
<b>Low Noise</b>													
◆ 511-LM2904Q2T	LM2904Q2T	DFN-8	Dual	7.0	200nA	1.1	0.6	30.0	1200	-40 to +125	.45	.323	.148
◆ 511-TL074CDT	TL074CDT	SO-14	Quad	10.0	200pA	3.0	13	18.0	2500	0 to +70	.50	.385	.209
◆ 511-TL074IDT	TL074IDT	SO-14	Quad	10.0	200pA	3.0	13	18.0	2500	-40 to +105	.47	.39	.238
<b>Low Power</b>													
◆ 511-TS321AIL	TS321AILT	SOT-23-5L	Single	2.0	150nA	0.8	0.4	32.0	800	-40 to +105	.71	.592	.382
◆ 511-TS321IL	TS321ILT	SOT-23-5L	Single	4.0	150nA	0.8	0.4	32.0	800	-40 to +125	.50	.415	.253
◆ 511-LMV321LILT	LMV321LILT	SOT-23-5	Single	7.0	60nA	1.3	0.6	5.5	22	-40 to +125	.43	.332	.18
◆ 511-TSB572IQ2T	TSB572IQ2T	DFN-8	Dual	2.1	70nA	2.2	1.0	36.0	500	-40 to +125	1.94	1.65	1.32
◆ 511-TSB572IST	TSB572IST	SO-8	Dual	2.1	70nA	2.2	1.0	36.0	500	-40 to +125	2.10	1.78	1.42
◆ 511-TSB572YQ2T	TSB572YQ2T	DFN-8	Dual	2.1	70nA	2.2	1.0	36.0	500	-40 to +125	1.97	1.67	1.34
◆ 511-TSB572YIST	TSB572YIST	SO-8	Dual	2.1	70nA	2.2	1.0	36.0	500	-40 to +125	2.52	2.14	1.71
◆ 511-LM358QT	LM358QT	DFN-8	Dual	3.0	20nA	1.1	0.6	32.0	1200	-55 to +125	.41	.289	.133
◆ 511-LM258AWDT	LM258AWDT	SO-8	Dual	3.0	50nA	1.1	0.6	30.0	700	-40 to +105	.52	.433	.264
◆ 511-LM258QT	LM258QT	DFN-8	Dual	5.0	150nA	1.1	0.6	5.0	700	-40 to +105	.45	.379	.231
◆ 511-LM158DT	LM158DT	SO-8	Dual	5.0	150nA	1.1	0.6	32.0	1200	-55 to +125	.58	.484	.312
◆ 511-LMV358LIDT	LMV358LIDT	SO-8	Dual	7.0	60nA	1.3	0.6	5.5	22	-40 to +125	.45	.35	.19
◆ 511-LM2904P	LM2904PT	TSSOP-8	Dual	7.0	150nA	1.1	0.6	32.0	1200	-40 to +125	.45	.323	.148
◆ 511-LM358ADT	LM358ADT	SO-8	Dual	7.0	150nA	1.1	0.6	32.0	1200	0 to +70	.45	.317	.146
◆ 511-LM358AST	LM358AST	MiniSO-8	Dual	7.0	150nA	1.1	0.6	32.0	1200	0 to +70	.45	.317	.146
◆ 511-LM358WST	LM358WST	MiniSO-8	Dual	7.0	150nA	1.1	0.6	5.0	700	0 to +70	.40	.306	.166
◆ 511-LMV824IPT	LMV824IPT	TSSOP-14	Quad	3.5	180nA	5.5	1.7	5.5	300	-40 to +125	.92	.766	.494
◆ 511-MC33174DT	MC33174DT	SO-14	Quad	4.5	100nA	2.1	2.0	22.0	250	-40 to +105	.79	.657	.424
◆ 511-LM224P	LM224PT	TSSOP-14	Quad	5.0	150nA	1.3	0.4	32.0	1200	-40 to +105	.46	.329	.151
◆ 511-LMV324LIDT	LMV324LIDT	SO-14	Quad	7.0	60nA	1.3	0.6	5.5	22	-40 to +125	.46	.354	.192
◆ 511-LM2902P	LM2902P	TSSOP-14	Quad	7.0	150nA	1.3	0.4	32.0	1200	-40 to +125	.36	.275	.149
◆ 511-LM324AP	LM324AP	TSSOP-14	Quad	7.0	150nA	1.3	0.4	32.0	1200	0 to +70	.39	.301	.163
◆ 511-LM324P	LM324PT	TSSOP-14	Quad	7.0	150nA	1.3	0.4	32.0	1200	0 to +70	.41	.289	.133
<b>Precision</b>													
◆ 511-TS2121IYLT	TS2121IYLT	SOT23-5	Single	0.008	200pA	0.4	0.19	6.0	40	-40 to +125	2.11	1.80	1.44
◆ 511-TS9224IDT	TS9224IDT	SO-14	Quad	0.9	55nA	4.0	1.3	12.0	1800	-40 to +125	1.81	1.46	1.17
<b>Rail-to-Rail Full CMOS</b>													
◆ 511-TSX921ILT	TSX921ILT	SOT-23-5	Single	4.0	10pA	10.0	17.0	18.0	3400	-40 to +125	1.14	.98	.753
◆ 511-TSX9291ILT	TSX9291ILT	SOT-23-5	Single	4.0	10pA	16.0	27.0	18.0	3400	-40 to +125	1.14	.98	.753
◆ 511-TSX922IDT	TSX922IDT	SO-8	Dual	4.0	100pA	10.0	17.7	16.0	3100	-40 to +125	1.25	1.07	.823
◆ 511-TSX9292IDT	TSX9292IDT	SO-8	Dual	4.0	100pA	16.0	26.0	16.0	2800	-40 to +125	1.25	1.07	.823
◆ 511-TS912AIDT	TS912AIDT	SO-8	Dual	7.0	150pA	0.8	+0.4/-0.3	18.0	700	-40 to +125	1.12	.96	.737
◆ 511-TS912IDT	TS912IDT	SO-8	Dual	10.0	100pA	1.0	0.8	18.0	700	-40 to +125	1.07	.862	.662
◆ 511-TSV522AIST	TSV522AIST	MiniSO-8	Dual	18.0	100pA	1.15	0.74	5.5	60	-40 to +125	.98	.843	.647
◆ 511-TSV524IPT	TSV524IPT	TSSOP-14	Quad	3.3	100pA	1.15	0.74	5.5	60	-40 to +125	1.27	1.08	.836
◆ 511-TSV524IQ4T	TSV524IQ4T	QFN-16	Quad	3.3	100pA	1.15	0.74	5.5	60	-40 to +125	1.27	1.08	.836
◆ 511-TS274AIPT	TS274AIPT	SO-14	Quad	5.0	300pA	3.5	5.5	16.0	1000	-40 to +125	.73	.614	.396
◆ 511-TS914IDT	TS914IDT	SO-14	Quad	10.0	150pA	0.9	+0.8/-0.5	18.0	230	-40 to +125	1.83	1.56	1.24
◆ 511-TS274IPT	TS274IPT	SO-14	Quad	10.0	300pA	3.5	5.5	16.0	1000	-40 to +125	.63	.527	.34
<b>Rail-to-Rail Input/Output</b>													
◆ 511-TSV991AIQ1T	TSV991AIQ1T	DFN-6	Single	3.0	100pA	20.0	10.0	5.5	1100	-40 to +125	.73	.614	.396
◆ 511-TSV521ICT	TSV521ICT	SC-70-5	Single	3.3	100pA	1.15	0.74	5.5	60	-40 to +125	.72	.604	.39
◆ 511-TSX920ILT	TSX920ILT	SOT-23-6	Single	5.0	200pA	10.0	17.2	16.0	3600	-40 to +125	1.22	1.04	.804
◆ 511-OA2MPA22Q	OA2MPA22Q	DFN-8	Dual	1.2	300pA	0.12	0.05	5.5	9	-40 to +125	1.59	1.35	1.08

Amplifier ICs

STMicroelectronics