

# STMicroelectronics Operational Amplifiers



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

## OPERATIONAL AMPLIFIERS (CONT.)

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>Rail-to-Rail Input/Output (Cont.)</b>													
◆ 511-TS922IP	TS922IPT	TSSOP-8	Dual	3.0	100nA	4.0	1.3	14.0	3000	-40 to +125	1.13	.966	.742
◆ 511-TSX922IQ2T	TSX922IQ2T	DFN-8	Dual	5.0	200pA	10.0	17.0	16.0	3500	-40 to +125	1.31	1.12	.864
◆ 511-TSX922IST	TSX922IST	MiniSO-8	Dual	5.0	200pA	10.0	17.0	16.0	3500	-40 to +125	1.19	1.02	.785
◆ 511-TSX923IST	TSX923IST	MiniSO-8	Dual	5.0	200pA	10.0	17.0	16.0	3500	-40 to +125	1.39	1.19	.914
◆ 511-TSX929IQ2T	TSX929IQ2T	DFN-8	Dual	5.0	200pA	16.0	27.0	16.0	3600	-40 to +125	1.31	1.12	.864
◆ 511-TSX929IST	TSX929IST	MiniSO-8	Dual	5.0	200pA	16.0	27.0	16.0	3600	-40 to +125	1.19	1.02	.785
◆ 511-TSV524AIYPT	TSV524AIYPT	TSSOP-14	Quad	2.6	10pA	1.15	0.74	5.5	30	-40 to +125	1.60	1.29	1.03
◆ 511-TSV524IYPT	TSV524IYPT	TSSOP-14	Quad	3.3	10pA	1.15	0.74	5.5	30	-40 to +125	1.54	1.31	1.01
<b>Rail-to-Rail Low Power</b>													
◆ 511-TSX711AILT	TSX711AILT	SOT-23-5	Single	0.35	50pA	2.7	0.85	16.0	570	-40 to +125	1.20	1.02	.787
◆ 511-TSX7191AILT	TSX7191AILT	SOT-23-5	Single	0.35	50pA	9.0	2.5	16.0	630	-40 to +125	1.48	1.26	.972
◆ 511-TSX7191ILT	TSX7191ILT	SOT-23-5	Single	0.45	50pA	9.0	2.3	16.0	630	-40 to +125	1.18	1.01	.778
◆ 511-TSB611ILT	TSB611ILT	SOT-23-5	Single	1.6	15nA	0.48	+0.19/-0.15	36.0	0.125	-40 to +125	1.60	1.37	1.05
◆ 511-TS461CL	TS461CLT	SOT-23-5L	Single	5.0	750nA	10.0	4.0	12.0	2800	-20 to +70	.63	.527	.34
◆ 511-TS951IL	TS951ILT	SOT-23-5L	Single	6.0	100nA	3.0	1.0	12.0	1400	-40 to +125	.86	.733	.563
◆ 511-TSX711ILT	TSX711ILT	SO-23-5	Single	6.0	200pA	2.7	0.85	16.0	570	-40 to +125	1.09	.932	.716
◆ 511-TSX712IDT	TSX712IDT	SO-8	Dual	0.45	200pA	2.7	+1.4/-0.85	16.0	0.9	-40 to +125	2.07	1.76	1.41
◆ 511-TSX712IYDT	TSX712IYDT	SO-8	Dual	0.45	200pA	2.7	+1.4/-0.85	16.0	0.9	-40 to +125	2.71	2.30	1.84
◆ 511-TSX712IYST	TSX712IYST	MiniSO-8	Dual	0.45	200pA	2.7	+1.4/-0.85	16.0	0.9	-40 to +125	2.16	1.83	1.47
◆ 511-TSX7192IDT	TSX7192IDT	SO-8	Dual	0.45	200pA	7.7	+2.5/+2.3	16.0	0.9	-40 to +125	2.07	1.76	1.41
◆ 511-TSX7192IYDT	TSX7192IYDT	SO-8	Dual	0.45	200pA	7.7	+2.5/+2.3	16.0	0.9	-40 to +125	2.71	2.30	1.84
◆ 511-TSX7192IYST	TSX7192IYST	SO-8	Dual	0.45	200pA	7.7	+2.5/+2.3	16.0	0.9	-40 to +125	2.42	2.06	1.64
◆ 511-TSX712IST	TSX712IST	MiniSO-8	Dual	0.45	50pA	2.7	1.4	16.0	570	-40 to +125	1.49	1.27	1.01
◆ 511-LMV358IPT	LMV358IPT	TSSOP-14	Dual	3.0	50nA	1.0	0.35	7.0	22	-40 to +125	.42	.354	.216
◆ 511-TSV358AIDT	TSV358AIDT	SO-8	Dual	3.0	125nA	1.3	0.6	7.0	500	-40 to +125	.62	.487	.314
◆ 511-LMV358LIPT	LMV358LIPT	TSSOP-8	Dual	7.0	110nA	1.3	0.7	5.5	180	-40 to +125	.47	.363	.197
<b>Rail-to-Rail Micropower</b>													
◆ 511-TSZ121ICT	TSZ121ICT	SC-70-5	Single	0.008	50pA	0.4	0.17	5.5	31	-40 to +125	1.78	1.52	1.21
◆ 511-TSZ121ILT	TSZ121ILT	SOT-23-5	Single	0.008	50pA	0.4	0.17	5.5	31	-40 to +125	1.78	1.52	1.21
◆ 511-TSV712IST	TSV712IST	MiniSO-8	Single	1.2	300pA	0.12	0.04	5.5	9	-40 to +125	1.66	1.41	1.13
◆ 511-TSX631AILT	TSX631AILT	SOT-23-5	Single	1.5	1pA	0.2	0.12	16.0	45	-40 to +125	1.26	1.07	.826
◆ 511-TS941IL	TS941ILT	SOT-23-5L	Single	10.0	1pA	0.01	4.0	12.0	1.2	-40 to +85	1.37	1.17	.899
◆ 511-TS931IL	TS931ILT	SOT-23-5L	Single	10.0	1pA	0.1	50.0	12.0	20	-40 to +85	.61	.513	.312
◆ 511-TSZ122IQ2T	TSZ122IQ2T	DFN-8	Dual	0.008	300pA	0.4	0.19	5.5	31	-40 to +125	2.32	1.97	1.58
◆ 511-TSZ122IST	TSZ122IST	MiniSO-8	Dual	0.008	300pA	0.4	0.19	5.5	31	-40 to +125	2.32	1.97	1.58
◆ 511-TSX562IQ2T	TSX562IQ2T	DFN-8	Dual	0.6	1pA	0.8	1.0	16.0	250	-40 to +125	1.31	1.12	.864
◆ 511-TSV712IQ2T	TSV712IQ2T	DFN-8	Dual	1.2	300pA	0.15	0.06	5.5	16	-40 to +125	1.66	1.41	1.13
◆ 511-TSX632AIST	TSX632AIST	MiniSO-8	Dual	1.5	200pA	0.2	0.12	16.0	60	-40 to +125	1.58	1.34	1.07
◆ 511-TSX632IQ2T	TSX632IQ2T	DFN-8	Dual	1.5	200pA	0.2	0.12	16.0	60	-40 to +125	1.60	1.36	1.04
◆ 511-TSX632IST	TSX632IST	MiniSO-8	Dual	1.5	200pA	0.2	0.12	16.0	60	-40 to +125	1.60	1.36	1.04
◆ 511-TSX564AIPT	TSX564AIPT	TSSOP-14	Quad	0.002	1pA	0.8	1.0	16.0	235	-40 to +125	2.14	1.72	1.38
◆ 511-TSZ124IYPT	TSZ124IYPT	TSSOP-14	Quad	0.08	300pA	0.4	0.17	5.5	0.4	-40 to +125	4.70	3.78	3.44
◆ 511-TSX634AIYPT	TSX634AIYPT	TSSOP-14	Quad	0.5	100pA	0.2	0.12	16.0	45	-40 to +125	2.89	2.33	1.87
◆ 511-TSX564IQ4T	TSX564IQ4T	QFN-16	Quad	0.6	1pA	0.8	1.0	16.0	220	-40 to +125	1.81	1.54	1.23
◆ 511-TSV734IPT	TSV734IPT	TSSOP-14	Quad	0.65	300pA	0.9	0.35	5.5	85	-40 to +125	2.51	2.02	1.62
◆ 511-TSV714IPT	TSV714IPT	TSSOP-14	Quad	1.2	300pA	0.15	0.04	5.5	16	-40 to +125	2.51	2.02	1.62
◆ 511-TSV714IQ4T	TSV714IQ4T	QFN-16	Quad	1.2	300pA	0.15	0.04	5.5	16	-40 to +125	2.38	2.02	1.62
◆ 511-TSX634IQ4T	TSX634IQ4T	QFN-16	Quad	1.5	200pA	0.2	0.12	16.0	60	-40 to +125	2.05	1.74	1.39
◆ 511-TSX564AIYPT	TSX564AIYPT	TSSOP-14	Quad	1.8	200pA	0.8	1	16	0.35	-40 to +125	3.16	2.54	2.31
◆ 511-TSX564IYPT	TSX564IYPT	TSSOP-14	Quad	2.2	200pA	0.8	1	16	0.35	-40 to +125	2.73	2.20	1.76
<b>Zero Drift Micropower</b>													
◆ 511-TSZ122IDT	TSZ122IDT	SO-8	Single	0.008	300pA	0.4	0.17	5.5	28	-40 to +125	2.36	1.90	1.52
◆ 511-TSZ124IPT	TSZ124IPT	TSSOP-14	Quad	0.008	300pA	0.4	0.19	5.5	31	-40 to +125	3.06	2.46	1.97
◆ 511-TSZ124IQ4T	TSZ124IQ4T	QFN-16	Quad	0.008	300pA	0.4	0.19	5.5	31	-40 to +125	2.90	2.46	1.97
<b>Rail-to-Rail Nanopower</b>													
◆ 511-TSU101ICT	TSU101ICT	SC70-5	Single	3.0	5pA	0.008	3.0	5.5	0.8	-40 to +85	1.06	.907	.697
◆ 511-TSU101ILT	TSU101ILT	SOT-23-5	Single	3.0	5pA	0.008	3.0	5.5	0.8	-40 to +85	1.06	.907	.697
◆ 511-TSU101RILT	TSU101RILT	SOT-23-5	Single	3.0	5pA	0.008	3.0	5.5	0.8	-40 to +85	1.06	.907	.697
◆ 511-TSU104IPT	TSU104IPT	TSSOP-14	Single	3.4	5pA	0.8	3.0	5.5	0.8	-40 to +85	1.60	1.29	1.03
◆ 511-TSU104IQ4T	TSU104IQ4T	QFN-16	Single	3.4	5pA	0.8	3.0	5.5	0.8	-40 to +85	1.60	1.36	1.08
◆ 511-TSU102IQ2T	TSU102IQ2T	DFN-8	Single	3.4	30pA	0.8	3.0	5.5	0.8	-40 to +85	1.46	1.25	.961
◆ 511-TSU102IST	TSU102IST	MiniSO-8	Single	3.4	30pA	0.8	3.0	5.5	0.8	-40 to +85	1.38	1.18	.907
<b>Rail-to-Rail Very Low Noise</b>													
◆ 511-TS971IYLT	TS971IYLT	SOT-8	Single	5.0	200nA	12.0	4.0	12.0	2000	-40 to +125	.91	.778	.598
◆ 511-TS971ILT	TS971ILT	SOT-23-5L	Single	5.0	750nA	12.0	4.0	12.0	2800	-40 to +125	.84	.701	.452
<b>Wideband Width</b>													
◆ 511-TSX561AILT	TSX561AILT	SOT-23-5	Single	1.8	200pA	0.9	1.0	16.0	250	-40 to +125	1.11	.952	.731
◆ 511-TSX561ILT	TSX561ILT	SOT-23-5	Single	2.2	200pA	0.9	1.0	16.0	250	-25 to +125	1.01	.865	.664
◆ 511-MC4558ID-TR	MC4558IDT	SO-8	Dual	5.0	400nA	5.5	2.2	±22.0	4500	-40 to +125	.50	.385	.209

## DEMONSTRATION AND EVALUATION BOARDS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Description	Price Each
511-STEVAL-CCA023V1	STEVAL-CCA023V1	TS472, 2.2V to 5.5V, 1.8mA, Low Noise Microphone Preamplifier Demonstration Board	31.25
511-STEVAL-CCA027V1	STEVAL-CCA027V1	TDA7492, 50W Dual BTL Class-D Audio Amplifier Demonstration Board	82.50
511-STEVAL-CCA029V1	STEVAL-CCA029V1	TDA7491LP 5W, 14V Class-D Audio Amplifier Demonstration Board	78.75
511-STEVAL-CCA030V1	STEVAL-CCA030V1	STA350BW, APWLink, Audio Digital Amplifier Processing, Control and FFX-Power Output Stage Demonstration Board	181.25
511-STEVAL-CCA035V1	STEVAL-CCA035V1	STA120D APWLink USB Interface Demonstration Board	97.50
511-STEVAL-CCA048V1	STEVAL-CCA048V1	STA333ML Sound Terminal 2-Ch Microless High-Efficiency Digital Audio System Board	58.75
511-STEVAL-CCA044V1	STEVAL-CCA044V1	TDA7498E 160W, Dual BTL Class-D Audio Amplifier Demonstration Board	76.25
511-STEVAL-CCA053V1	STEVAL-CCA053V1	STA333IS 2.0 Channel High-Efficiency Digital Audio System 4-Layer Demonstration Board	56.25
511-STEVAL-CCA057V1	STEVAL-CCA057V1	SO-8, Dual Operational Amplifier Bare PCB Evaluation Board	18.75
511-STEVAL-CCA057V2	STEVAL-CCA057V2	MSO-8, Dual Operational Amplifier Bare PCB Evaluation Board	18.75
511-STEVAL-CCA057V3	STEVAL-CCA057V3	MSO-10, Dual Operational Amplifier Bare PCB Evaluation Board	18.75
511-STEVAL-CCA057V4	STEVAL-CCA057V4	DFN8-EP, Dual Operational Amplifier Bare PCB Evaluation Board	18.75
511-STEVAL-CCA057V5	STEVAL-CCA057V5	DFN8, Dual Operational Amplifier Bare PCB Evaluation Board	18.75
511-STEVAL-ISA132V1	STEVAL-ISA132V1	L6699, STB13N60M2, STPS20H100CG 24V, 170W, LLC Resonant Converter Evaluation Board	187.50