

# STMICROELECTRONICS Operational Amplifiers



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## OPERATIONAL AMPLIFIERS (CONT.)

Amplifier ICs  
STMicroelectronics

### Rail-to-Rail Full CMOS

◆ Surface Mount Device

PRODUCT **NEW**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM 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 (uA) (Max.)	Temperature Range (°C)	Price Each		
											1	10	100
◆ 511-TSV6191AICT	TSV6191AICT	SC-70-5	S	0.8	10pA	0.38	0.06	6	12.5	-40 to +85	1.19	1.06	.84
◆ 511-TSV6191AILT	TSV6191AILT	SOT-23-5	S	0.8	10pA	0.38	0.06	6	12.5	-40 to +85	1.12	.987	.776
◆ 511-TSV6221LT	TSV6221LT	SOT-23-8	S	4	10pA	340	0.155	6	33	-40 to +125	1.12	.987	.776
◆ 511-TSV5221Q2T	TSV5221Q2T	DFN-8	D	0.018	100pA	1.15	0.74	5.5	51	-40 to +125	1.16	.922	.806
◆ 511-TSV6192AIST	TSV6192AIST	MiniSO-8	D	0.8	1pA	0.45	0.06	6	9	-40 to +85	1.59	1.40	1.10
◆ 511-TSV6192AIDT	TSV6192AIDT	SO-8	D	2	1pA	0.45	0.06	6	9	-40 to +85	1.66	1.48	1.17
◆ 511-TSV6192IDT	TSV6192IDT	SO-8	D	2	1pA	0.45	0.06	6	9	-40 to +86	1.13	.993	.78
◆ 511-TS912BID	TS912BID	SO-8	D	2	100pA	1.00	0.8	18	0.35	-40 to +125	2.47	2.11	1.52
◆ 511-TS912AIDT	TS912AIDT	SO-8	D	7	150pA	0.80	+0.4/-0.3	18	0.3	-40 to +125	1.29	1.15	.98
◆ 511-TS912ID	TS912ID	SO-8	D	10	100pA	1.00	0.8	18	0.35	-40 to +125	1.47	1.29	.98
◆ 511-TS912IDT	TS912IDT	SO-8	D	10	100pA	1.00	0.8	18	0.35	-40 to +125	1.30	1.11	.804
◆ 511-TS912IN	TS912IN	DIP-8	D	10	100pA	1.00	0.8	18	0.35	-40 to +125	1.47	1.29	.98
◆ 511-TS914ID	TS914ID	SO-14	Q	10	150pA	0.90	+0.8/-0.5	18	0.35	-40 to +125	2.50	2.13	1.54
◆ 511-TS914IDT	TS914IDT	SO-14	Q	10	150pA	0.90	+0.8/-0.5	18	0.35	-40 to +125	2.36	2.02	1.65

### Rail-to-Rail Input/Output

PRODUCT **NEW**

For quantities greater than listed, call for quote.

◆ 511-TSV631AICT	TSV631AICT	SC-70-5	S	0.002	1pA	880kHz	0.27	5.5	60	-40 to +125	1.40	1.12	.98
◆ 511-TSV521ICT	TSV521ICT	SC-70-5	S	0.018	100pA	1.15	0.74	5.5	51	-40 to +125	.98	.764	.667
◆ 511-TSV521AICT	TSV521AICT	SC-70-5	S	0.018	100pA	1.15	0.74	5.5	51	-40 to +125	.95	.761	.665
◆ 511-TSV621ICT	TSV621ICT	SC-70-5	S	0.8	100pA	420kHz	0.14	5.5	31	-40 to +125	.91	.726	.635
◆ 511-TSV621AICT	TSV621AICT	SC-70-5	S	0.8	100pA	420kHz	0.14	5.5	31	-40 to +125	1.24	.988	.864

### Rail-to-Rail High Output Current

For quantities greater than listed, call for quote.

◆ 511-TS922AID	TS922AID	SO-8	D	0.9	100nA	4.00	1.3	14	3	-40 to +125	1.82	1.55	1.12
◆ 511-TS922ID	TS922ID	SO-8	D	3	100nA	4.00	1.3	14	3	-40 to +125	1.52	1.30	.942
◆ 511-TS922IN	TS922IN	DIP-8	D	3	100nA	4.00	1.3	14	3	-40 to +125	1.74	1.48	1.07
◆ 511-TS922IPT	TS922IPT	TSSOP-8	D	3	100nA	4.00	1.3	14	3	-40 to +125	1.74	1.48	1.07
◆ 511-TS924AID	TS924AID	SO-14	Q	0.9	100nA	4.00	1.3	14	7	-40 to +125	2.31	2.07	1.69
◆ 511-TS924ID	TS924ID	SO-14	Q	3	100nA	4.00	1.3	14	7	-40 to +125	2.33	1.99	1.62
◆ 511-TS924IN	TS924IN	DIP-14	Q	3	100nA	4.00	1.3	14	7	-40 to +125	2.33	1.99	1.62
◆ 511-TS924IPT	TS924IPT	TSSOP-14	Q	3	100nA	4.00	1.3	14	7	-40 to +125	2.33	1.99	1.62

### Rail-to-Rail Low Power

For quantities greater than listed, call for quote.

◆ 511-TS1851IL	TS1851ILT	SOT-23-5L	S	3	50nA	0.48	0.18	7	0.17	-40 to +125	1.16	1.03	.823
◆ 511-TS461CL	TS461CLT	SOT-23-5L	S	5	750nA	10	4	12	2.8	-20 to +70	.79	.68	.53
◆ 511-TS951IL	TS951ILT	SOT-23-5L	S	6	100nA	3.00	1	12	1.3	-40 to +125	.99	.85	.614
◆ 511-LMV358IPT	LMV358IPT	TSSOP-14	D	3	50nA	1.00	0.35	7	0.2	-40 to +125	.64	.57	.44
◆ 511-TSV358AIDT	TSV358AIDT	SO-8	D	3	125nA	1.30	0.6	7	0.65	-40 to +125	1.47	1.31	1.04
◆ 511-TS462CD	TS462CD	SO-8	D	5	750nA	10	4	12	2.8	-20 to +70	.97	.86	.69
◆ 511-TS952ID	TS952ID	SO-8	D	6	100nA	3.00	1	12	1.3	-40 to +125	1.54	1.36	1.08
◆ 511-TS952IN	TS952IN	DIP-8	D	6	100nA	3.00	1	12	1.3	-40 to +125	1.54	1.36	1.08
◆ 511-TS952IPT	TS952IPT	TSSOP-8	D	6	100nA	3.00	1	12	1.3	-40 to +125	1.68	1.49	1.19
◆ 511-TS464CD	TS464CD	SO-14	Q	5	750nA	10	4	12	2.8	-20 to +70	1.10	.996	.792
◆ 511-TS954ID	TS954ID	SO-14	Q	6	100nA	3.00	1	12	1.3	-40 to +125	1.64	1.46	1.23

### Rail-to-Rail Micropower

PRODUCT **NEW**

For quantities greater than listed, call for quote.

◆ 511-TSV6291AICT	TSV6291AICT	SC-70-6	S	0.8	10pA	1.10	0.33	6	0.031	-40 to +125	.97	.88	.68
◆ 511-TSV6291AILT	TSV6291AILT	SOT-23-6	S	0.8	10pA	1.10	0.33	6	0.031	-40 to +125	.95	.85	.67
◆ 511-TSV6292IST	TSV6292IST	MiniSO-8	S	6	100pA	1.3	0.5	6	60	-40 to +125	1.36	1.22	.969
◆ 511-TSV6291ICT	TSV6291ICT	SC-70-6	S	4	10pA	1.10	0.33	6	0.031	-40 to +125	.94	.80	.64
◆ 511-TSV6291ILT	TSV6291ILT	SOT-23-6	S	4	10pA	1.10	0.33	6	0.031	-40 to +125	.65	.575	.452
◆ 511-TSV6390ICT	TSV6390ICT	SC-70-6	S	10	1pA	2.40	0.70	6	1.5	-40 to +125	1.46	1.30	1.03
◆ 511-TSV6390ILT	TSV6390ILT	SOT-23-6	S	10	1pA	2.40	0.70	6	1.5	-40 to +125	1.07	.94	.74
◆ 511-TS941IL	TS941ILT	SOT-23-5L	S	10	150pA	0.01	4	12	2	-40 to +85	1.92	1.63	1.18
◆ 511-TS931IL	TS931ILT	SOT-23-5L	S	10	150pA	0.10	50	12	31	-40 to +85	.85	.73	.57
◆ 511-TSV6321Q2T	TSV6321Q2T	DFN-8	D	0.8	100pA	0.88	0.27	6	60	-40 to +125	1.85	1.65	1.52
◆ 511-TSV6292AIDT	TSV6292AIDT	SO-8	D	2	1pA	1.30	0.33	6	33	-40 to +125	1.66	1.48	1.17
◆ 511-TSV6292AIST	TSV6292AIST	MiniSO-8	D	2	1pA	1.30	0.33	6	33	-40 to +125	1.59	1.40	1.10
◆ 511-TSV6392AIDT	TSV6392AIDT	SO-8	D	2	1pA	2	0.70	6	60	-40 to +125	1.66	1.48	1.17
◆ 511-TSV6392AIST	TSV6392AIST	MiniSO-8	D	2	1pA	2	0.70	6	60	-40 to +125	1.59	1.40	1.10
◆ 511-TSV6392IST	TSV6392IST	MiniSO-8	D	2	1pA	2	0.70	6	64	-40 to +125	1.36	1.22	.969
◆ 511-TSV6393IST	TSV6393IST	MiniSO-10	D	2	1pA	2.4	0.70	6	62	-40 to +125	1.50	1.32	1.03
◆ 511-TSV6392IDT	TSV6392IDT	SO-8	D	3	1pA	2.4	0.70	6	60	-40 to +125	1.66	1.48	1.18
◆ 511-TSV6292IDT	TSV6292IDT	SO-8	D	4	100pA	1.1	0.33	6	0.033	-40 to +125	1.13	.993	.78
◆ 511-TS942ID	TS942ID	SO-8	D	10	150pA	0.01	4	12	2	-40 to +85	1.97	1.68	1.21
◆ 511-TSV6395IPT	TSV6395IPT	TSSOP-16	Q	3	10pA	2.00	0.7	6	62	-40 to +125	1.09	.97	.77

### Rail-to-Rail Very Low Noise

For quantities greater than listed, call for quote.

◆ 511-TS971IL	TS971ILT	SOT-23-5L	S	5.0	750nA	12	4	12	2.8	-40 to +125	1.16	1.03	.76
◆ 511-TS972IST	TS972IST	MSOP-8	D	5.0	750nA	12	4	12	2.8	-40 to +125	1.12	1.00	.796
◆ 511-TS972IQT	TS972IQT	DFN-8	D	5.0	750nA	12	4	10	5600	-40 to +125	1.21	1.07	.846

### Rail-to-Rail Wideband Width

PRODUCT **NEW**

For quantities greater than listed, call for quote.

◆ 511-TSH70CLT	TSH70CLT	SOT-23-5L	S	10.0	15uA	65	80	14	9.8	0 to +70	1.34	1.23	.993
◆ 511-TSH80ILT	TSH80ILT	SOT-23-5L	S	10.0	15uA	65	104	14	10.5	-40 to +85	1.23	1.13	.913
◆ 511-TSH84IPT	TSH84IPT	TSSOP-14	Q	12.0	15uA	100	100	12	42000	-40 to +85	2.50	2.14	1.75

### Very Low Power

For quantities greater than listed, call for quote.

◆ 511-TS27L4ACD	TS27L4ACD	SO-14	Q	5.0	150nA	0.10	0.04	18	15.00	0 to +70	.93	.80	.63
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### Wideband Width

PRODUCT **NEW**

For quantities greater than listed, call for quote.

◆ 511-TSX561ILT	TSX561ILT	SOT-23-5	S	0.012	200pA	900kHz	1	16	350	-25 to +125	1.64	1.32	1.19
◆ 511-TSX561AILT	TSX561AILT	SOT-23-5	S	0.012	200pA	900kHz	1	16	350	-40 to +125	1.80	1.45	1.31
◆ 511-LF351N	LF351N	DIP-8	S	10.0	200pA	4.00	16	±18	3.40	0 to +70	.72	.62	.47
◆ 511-MC4558CN	MC4558CN	DIP-8	D	5.0	400nA	5.50	2.20	±22	4.50	0 to +70	.44	.32	.24
◆ 511-MC4558ID-TR	MC4558IDT	SO-8	D	5.0	400nA	5.50							