

# FAIRCHILD Amplifiers

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Amplifier ICs

Fairchild Semiconductor

## STANDARD OPERATIONAL AMPLIFIERS

### Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	No. of Amp	Supply Voltage (VCC)/±	Input Offset Volt. Max	Input Offset Curr. Max	Input Bias Curr. Max	Supply Current Typ.	Volt. Gain Typical	Output Volt. Swing Typical		Slew Rate (V/μs)	Price Each			
										(VoL)	(VoH)		1	10	100	1000
◆ 512-KA2904DTF	KA2904DTF	SOIC-8	2	3/26V	7mV	30nA	250nA	0.8mA	100V/mV	20mV	28000mV	-	.49	.377	.204	.153
◆ 512-KA324A	KA324A	DIP-14	4	16/32V	7mV	50nA	250nA	0.7mA	100V/mV	5mV	28000mV	-	.51	.425	.259	.20
◆ 512-KA324ADTF	KA324ADTF	SOP-14	4	16/32V	3mV	30nA	100nA	1.5mA	100V/mV	5mV	28000mV	-	.54	.406	.255	.191
◆ 512-KA358A	KA358A	DIP-8	2	16/32V	3mV	30nA	100nA	0.8mA	100V/mV	5mV	28000mV	-	.49	.377	.204	.153
◆ 512-KA358ADTF	KA358ADTF	SOP-8	2	16/32V	7mV	50nA	250nA	0.8mA	100V/mV	5mV	28mV	-	.49	.377	.204	.153
◆ 512-KA4558	KA4558	DIP-8	2	22V	6mV	200nA	500nA	3.5mA	200V/mV	-	14000mV	1.2	.46	.353	.192	.144
◆ 512-KA4558DTF	KA4558DTF	SOIC-8	2	22V	6mV	200nA	500nA	3.5mA	200V/mV	-	14000mV	1.2	.50	.332	.185	.135
◆ 512-L272AM	L272AM	DIP-8	2	40V	60mV	250nA	2500nA	7.5mA	-	-	23000mV	1	.60	.504	.307	.238
◆ 512-L272M	L272M	DIP-8	2	40V	60mV	250nA	2500nA	7.5mA	-	-	23000mV	1	.60	.504	.307	.238
◆ 512-LF353MX	LF353MX	SOIC-8	2	18V	10mV	0.1nA	0.2nA	3.6mA	100V/mV	-	-	13	.56	.466	.284	.22
◆ 512-LF353N	LF353N	DIP-8	2	18V	10mV	0.1nA	0.2nA	3.6mA	100V/mV	-	-	13	.50	.421	.257	.198
◆ 512-LM258AM	LM258AM	SOP-8	2	16/32V	5mV	30nA	150nA	0.8mA	100V/mV	5mV	28mV	-	.46	.353	.192	.144
◆ 512-LM258N	LM258N	DIP-8	2	16/32V	5mV	30nA	150nA	0.8mA	100V/mV	5mV	28000mV	-	.44	.371	.226	.175
◆ 512-LM2902M	LM2902M	SOP-14	4	13/26V	7mV	50nA	250nA	1mA	100V/mV	5mV	24mV	-	.40	.338	.206	.159
◆ 512-LM2902MX	LM2902MX	SOP-14	4	13/26V	7mV	50nA	250nA	0.7mA	100V/mV	5mV	24000mV	-	.51	.393	.213	.16
◆ 512-LM2902N	LM2902N	DIP-14	4	13/26V	7mV	50nA	250nA	0.7mA	100V/mV	5mV	24000mV	-	.45	.378	.23	.178
◆ 512-LM2904M	LM2904M	SOP-8	2	13/26V	7mV	50nA	250nA	0.8mA	100V/mV	5mV	24mV	-	.40	.307	.166	.125
◆ 512-LM2904MX	LM2904MX	SOP-8	2	13/26V	7mV	50nA	250nA	0.8mA	100V/mV	5mV	24mV	-	.42	.323	.175	.131
◆ 512-LM2904N	LM2904N	DIP-8	2	13/26V	7mV	50nA	250nA	0.5mA	100V/mV	5mV	24000mV	-	.42	.323	.175	.131
◆ 512-LM324AM	LM324AM	SOP-14	4	16/32V	7mV	50nA	250nA	1mA	100V/mV	5mV	28mV	-	.40	.338	.206	.159
◆ 512-LM324AMX	LM324AMX	SOP-14	4	16/32V	7mV	50nA	250nA	1mA	100V/mV	5mV	28mV	-	.43	.325	.204	.153
◆ 512-LM324AN	LM324AN	DIP-14	4	16/32V	3mV	30nA	100nA	0.7mA	100V/mV	5mV	28000mV	-	.45	.38	.231	.179
◆ 512-LM324M	LM324M	SOP-14	4	16/32V	7mV	50nA	250nA	1mA	100V/mV	5mV	28mV	-	.40	.338	.206	.159
◆ 512-LM324MX	LM324MX	SOP-14	4	16/32V	7mV	50nA	250nA	0.7mA	100V/mV	5mV	28000mV	-	.51	.393	.213	.16
◆ 512-LM324N	LM324N	DIP-14	4	16/32V	7mV	50nA	250nA	0.7mA	100V/mV	5mV	28000mV	-	.45	.38	.231	.179
◆ 512-LM358AM	LM358AM	SOP-8	2	16/32V	7mV	50nA	250nA	0.8mA	100V/mV	5mV	28mV	-	.40	.307	.166	.125
◆ 512-LM358AMX	LM358AMX	SOIC-8	2	16/32V	3mV	30nA	100nA	0.5mA	100V/mV	5mV	28000mV	-	.38	.29	.157	.118
◆ 512-LM358AN	LM358AN	DIP-8	2	16/32V	3mV	30nA	100nA	0.5mA	100V/mV	5mV	28000mV	-	.42	.323	.175	.131
◆ 512-LM358M	LM358M	SOP-8	2	16/32V	7mV	50nA	250nA	0.8mA	100V/mV	5mV	28mV	-	.40	.307	.166	.125
◆ 512-LM358MX	LM358MX	SOIC-8	2	16/32V	7mV	50nA	250nA	0.5mA	100V/mV	5mV	28000mV	-	.38	.29	.157	.118
◆ 512-LM358N	LM358N	DIP-8	2	16/32V	7mV	50nA	250nA	0.5mA	100V/mV	5mV	28000mV	-	.43	.363	.221	.171
◆ 512-LMV324AM14X	LMV324AM14X	SOIC-14	4	2.7/5.5V	7mV	1nA	-	0.1mA	-	0.01V	2.69V	1.5	.88	.686	.443	.354

## HIGH PERFORMANCE OPERATIONAL AMPLIFIERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Amps Per Pack	Power Down	Rail to Rail Input or Output	Typical Unity Gain Bandwidth MHz	Typical Supply Curr. per Amp (mA)	Typical Output Current (+/- mA)	Supply Voltage Max (V)	CMRR Max (V)	Output Swing (V)	Input Voltage Noise (nV/√Hz)	Typical Offset Voltage (mV)	Typical Input Bias Curr. (uA)	Slew Rate (V/μs)	Price Each			
																1	10	100	1000
◆ 512-LMV321AP5X	LMV321AP5X	SC70-5	1	No	Output	1.4	0.1	35	5.5	3.8	4.98	33	1	0	15	.40	.338	.206	.159
◆ 512-LMV321AS5X	LMV321AS5X	SOT-23	1	No	Output	1.4	0.1	35	5.5	3.8	4.98	33	1	0	15	.48	.371	.201	.151
◆ 512-LMV358AM8X	LMV358AM8X	SOIC-8	2	No	Output	1.4	0.1	35	5.5	3.8	4.98	33	1	0	15	.52	.432	.263	.204
◆ 512-LMV358AMU8X	LMV358AMU8X	SOP-8	2	No	Output	1.4	0.1	35	5.5	3.8	4.98	33	1	0	15	.59	.494	.301	.232

## AUDIO HEADPHONE AMPLIFIERS



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Headphone Channels	Output Power (mW)	THD plus Noise (%)	Operating Supply Voltage(V)	Supply Current (mA)	Quiescent Current (Max.) (mA)	Operating Temperature Range(°C)	Price Each			
										1	10	100	1000
◆ 512-FAB3103UCX	FAB3103UCX	WLCSP-12	1-Ch. Mono	23	10	2.5-5.2	2.7	2.7	-40 to +85	1.04	.84	.645	.45
◆ 512-FAB2210UCX	FAB2210UCX	WLCSP-20	2-Ch. Stereo	27	10	2.8-5.25	1.9	-	-40 to +85	1.22	.98	.753	.525
◆ 512-FAB1200UCX	FAB1200UCX	WLCSP-12	2-Ch. Stereo	72	1	2.5-5.5	4.4	2.2	-40 to +85	1.39	1.12	.86	.60

## MICROPHONE PREAMPLIFIERS



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	DC Supply Voltage (Max.) (V)	Supply Current (Typ.) (μA)	Input Voltage Range (Max.) (V)	Total Harmonic Distortion (Max.) (%)	Supply Voltage Range (Min./Max.) (V)	Operating Temperature Range(°C)	Price Each			
									1	10	100	1000
◆ 512-FAN3850AUC16X	FAN3850AUC16X	WLCSP-6	4	470	4	0.20	1.64/3.63	-30 to +85	.87	.70	.538	.375
◆ 512-FAN3850AUC19X	FAN3850AUC19X	WLCSP-6	4	470	4	0.20	1.64/3.63	-30 to +85	.87	.70	.538	.375
◆ 512-FAN3850TUC15X35	FAN3850TUC15X35	WLCSP-6	4	420	3.63	0.10	1.64/3.63	-30 to +85	.63	.469	.295	.221

## COMPARATORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Supply Voltage (V)	Voltage Gain Typ. (V/mV)	Supply Current Typ. (mA)	Input Offset Voltage Max (mV)	Input Offset Current Max (nA)	Input Bias Current Max(nA)	Response Time (ns)	Price Each			
										1	10	100	1000
<b>Single</b>													
◆ 512-FAN156L6X	FAN156L6X	MicroPak-6	3	4	0.017	15	0.01	0.01	16.5	.41	.343	.209	.162
◆ 512-KA2803BDTF	KA2803BDTF	SOP-8	18	30	0.48	18	580000	80000	400000	.70	.542	.35	.28
<b>Dual</b>													
◆ 512-FAN256L8X	FAN256L8X	MicroPak-8	3	4	0.017	15	0.01	0.01	13	.55	.465	.30	.24
◆ 512-KA319	KA319	DIP-14	36	40	3.6	8	200	1000	80	.52	.433	.264	.204
◆ 512-KA319D	KA319D	SOP-14	36	40	3.6	8	200	1000	80	.45	.379	.231	.179
◆ 512-LM319M	LM319M	SOP-14	36	40	3.6	8	200	1000	80	.51	.424	.258	.20
◆ 512-LM319MX	LM319MX	SOP-14	36	40	3.6	8	200	1000	80	.48	.406	.247	.191
◆ 512-LM319N	LM319N	DIP-14	36	40	3.6	8	200	1000	80	.50	.417	.254	.196
◆ 512-LM2903M	LM2903M	SOP-8	36	100	0.6	7	50	250	1500	.37	.284	.154	.115
◆ 512-LM2903MX	LM2903MX	SOIC-8	36	100	0.6	7	50	250	1500	.50	.385	.209	.157
◆ 512-LM2903N	LM2903N	DIP-8	36	100	0.6	7	50	250	1500	.38	.295	.16	.12
◆ 512-KA393	KA393	DIP-8	36	200	0.6	5	50	250	1400	.40	.311	.168	.126
◆ 512-KA393A	KA393A	DIP-8	36	200	0.6	2	50	250	1400	.49	.377	.204	.153
◆ 512-LM393AM	LM393AM	SOP-8	36	200	0.6	2	50	250	1400	.37	.284	.154	.115
◆ 512-LM393AMX	LM393AMX	SOP-8	36	200	0.6	2	50	250	1400	.37	.284	.154	.115
◆ 512-LM393AN	LM393AN	DIP-8	36	200	0.6	2	50	250	1400	.38	.296	.16	.12
◆ 512-LM393M	LM393M	SOP-8	36	200	0.6	5	50	250	1400	.35	.27	.146	.11
◆ 512-LM393MX	LM393MX	SOIC-8	36	200	0.6	5	50	250	1400	.47	.334	.153	.118
◆ 512-LM393N	LM393N	DIP-8	36	200	0.6	5	50	250	1400	.38	.296	.16	.12