

ALD Precision Matched Small Signal MOSFET Arrays



ADVANCED
LINEAR
DEVICES, INC.
• Drain Source on Resistance Match: 0.5% Typ.
• Low Voltage and Nanopower Circuits

• Low Threshold Voltage
• Patented EPAD® Technology

• Near Infinite Current Gain
• Ideal Current Sources and Current Mirrors



This product is RoHS compliant.

• Temperature Range: 0 to 70°C
• Drain Source Breakdown: 10V Min.

MOSFETS
ALD

ALD N-CHANNEL ENHANCEMENT MODE

◆ Surface Mount

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Description	Package	Threshold Voltage Typ. (V)	Threshold Voltage Tolerance (±) (V)	Offset Voltage Max. (mV)	On Drain Current Min. (mA)	Gate Input Leakage Current Max. (pA)	Drain Source on Resistance Max. (Ω)	Drain Leakage Current Max. (nA)	Price Each		
Mfr.	Mfr. Part No.										1	25	100
◆	585—ALD1101APAL	Dual N-Channel Matched Pair MOSFET	DIP-8	0.7	0.3	2	25	50	75	4	4.38	3.48	2.78
◆	585—ALD1101ASAL	Dual N-Channel Matched Pair MOSFET	SO-8	0.7	0.3	2	25	50	75	4	4.38	3.48	2.78
◆	585—ALD1101PAL	Dual N-Channel Matched Pair MOSFET	DIP-8	0.7	0.3	10	25	50	75	4	2.69	2.14	1.71
◆	585—ALD1101SAL	Dual N-Channel Matched Pair MOSFET	SO-8	0.7	0.3	10	25	50	75	4	2.85	2.26	1.81
◆	585—ALD1106PBL	Quad N-Channel Matched Pair MOSFET Array	DIP-14	0.7	0.3	10	3	10	500	0.4	1.69	1.34	1.07
◆	585—ALD1106SBL	Quad N-Channel Matched Pair MOSFET Array	SO-14	0.7	0.3	10	3	10	500	0.4	1.76	1.39	1.12
◆	585—ALD110802PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	0.20	0.02	10	3	30	500	0.1	2.37	1.88	1.51
◆	585—ALD110802SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	0.20	0.02	10	3	30	500	0.1	2.37	1.88	1.51
◆	585—ALD110804PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	0.40	0.02	10	3	100	500	0.4	2.21	1.76	1.41
◆	585—ALD110804SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	0.40	0.02	10	3	100	500	0.4	2.14	1.70	1.36
◆	585—ALD110808PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	0.80	0.02	10	3	30	500	0.1	1.98	1.57	1.26
◆	585—ALD110808SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	0.80	0.02	10	3	30	500	0.1	1.98	1.57	1.26
◆	585—ALD110808APCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	0.80	0.02	2	3	30	500	0.1	2.81	2.03	1.79
◆	585—ALD110808ASCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	0.80	0.02	2	3	30	500	0.1	2.81	2.03	1.79
◆	585—ALD110814PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	1.40	0.04	10	3	30	500	0.1	2.21	1.76	1.41
◆	585—ALD110814SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	1.40	0.04	10	3	30	500	0.1	2.14	1.70	1.36
◆	585—ALD110902PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	0.20	0.02	10	3	30	500	0.1	1.80	1.43	1.15
◆	585—ALD110902SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	0.20	0.02	10	3	30	500	0.1	1.80	1.43	1.15
◆	585—ALD110904PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	0.40	0.02	10	3	100	500	0.4	1.25	1.00	.80
◆	585—ALD110904SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	0.40	0.02	10	3	100	500	0.4	1.30	1.03	.83
◆	585—ALD110908PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	0.80	0.02	10	3	30	500	0.1	1.05	.83	.67
◆	585—ALD110908SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	0.80	0.02	10	3	30	500	0.1	1.23	.98	.78
◆	585—ALD110908APAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	0.80	0.02	2	3	30	500	0.1	1.46	1.06	.93
◆	585—ALD110908ASAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	0.80	0.02	2	3	30	500	0.1	1.50	1.08	.96
◆	585—ALD110914PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	1.40	0.04	10	3	30	500	0.1	1.25	.90	.79
◆	585—ALD110914SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	1.40	0.04	10	3	30	500	0.1	1.30	.93	.82
◆	585—ALD1116PAL	Dual N-Channel Matched Pair MOSFET	DIP-8	0.7	0.3	10	3	10	500	0.4	1.48	1.18	.94
◆	585—ALD1116SAL	Dual N-Channel Matched Pair MOSFET	SO-8	0.7	0.3	10	3	10	500	0.4	1.48	1.18	.94
◆	585—ALD111933MAL	Dual N-Channel Matched Pair MOSFET	MSOP-8	3.30	0.05	20	3	100	500	0.4	1.30	.93	.82
◆	585—ALD111933SAL	Dual N-Channel Matched Pair MOSFET	SO-8	3.30	0.05	20	3	100	500	0.4	1.30	.93	.82

ALD P-CHANNEL ENHANCEMENT MODE

◆ Surface Mount

For quantities of 250 and up, call for quote.

◆	585—ALD1102PAL	Dual P-Channel Matched Pair MOSFET	DIP-8	-0.8	0.4	10	-8	50	270	4	2.69	2.14	1.71
◆	585—ALD1102SAL	Dual P-Channel Matched Pair MOSFET	SO-8	-0.8	0.4	10	-8	50	270	4	2.85	2.26	1.81
◆	585—ALD1102APAL	Dual P-Channel Matched Pair MOSFET	DIP-8	-0.8	0.4	2	-8	50	270	4	4.38	3.48	2.78
◆	585—ALD1102ASAL	Dual P-Channel Matched Pair MOSFET	SO-8	-0.8	0.4	2	-8	50	270	4	4.38	3.48	2.78
◆	585—ALD1107PBL	Quad P-Channel Matched Pair MOSFET Array	DIP-14	-0.7	0.3	10	-1.3	10	1800	0.4	1.69	1.34	1.07
◆	585—ALD1107SBL	Quad P-Channel Matched Pair MOSFET Array	SO-14	-0.7	0.3	10	-1.3	10	1800	0.4	1.76	1.39	1.12
◆	585—ALD1117PAL	Dual P-Channel Matched Pair MOSFET	DIP-8	-0.7	0.3	10	-1.3	10	1800	0.4	1.48	1.18	.94
◆	585—ALD1117SAL	Dual P-Channel Matched Pair MOSFET	SO-8	-0.7	0.3	10	-1.3	10	1800	0.4	1.48	1.18	.94

ALD COMPLEMENTARY N-CHANNEL & P-CHANNEL ENHANCEMENT MODE

◆ Surface Mount

For quantities of 250 and up, call for quote.

◆	585—ALD1103PBL	Dual N-Channel & Dual P-Channel Matched Pair MOSFET	DIP-14	0.7/-0.7	0.3 / 0.3	10	25/-8	50	75/270	4	3.17	2.52	2.02
◆	585—ALD1103SBL	Dual N-Channel & Dual P-Channel Matched Pair MOSFET	SO-14	0.7/-0.7	0.3 / 0.3	10	25/-8	50	75/270	4	3.17	2.52	2.02
◆	585—ALD1105PBL	Dual N-Channel & Dual P-Channel Matched Pair MOSFET	DIP-14	0.7/-0.7	0.3 / 0.3	10	3/-1.3	50	500/1800	0.4	1.98	1.57	1.26
◆	585—ALD1105SBL	Dual N-Channel & Dual P-Channel Matched Pair MOSFET	SO-14	0.7/-0.7	0.3 / 0.3	10	3/-1.3	50	500/1800	0.4	1.98	1.57	1.26
◆	585—ALD1115MAL	Complementary N-Channel & P-Channel MOSFET	MSOP-8	0.7/-0.7	0.3	10	3/-1.3	50	500/1800	0.4	1.48	1.18	.94
◆	585—ALD1115PAL	Complementary N-Channel & P-Channel MOSFET	DIP-8	0.7/-0.7	0.3	10	3/-1.3	50	500/1800	0.4	1.48	1.18	.94
◆	585—ALD1115SAL	Complementary N-Channel & P-Channel MOSFET	SO-8	0.7/-0.7	0.3	10	3/-1.3	50	500/1800	0.4	1.48	1.18	.94

ALD N-CHANNEL ZERO THRESHOLD MODE

◆ Surface Mount

For quantities of 250 and up, call for quote.

◆	585—ALD110800PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	0.00	0.02	10	3	30	500	0.1	2.37	1.88	1.51
◆	585—ALD110800SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	0.00	0.02	10	3	30	500	0.1	2.37	1.88	1.51
◆	585—ALD110800APCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	0.00	0.01	2	3	30	500	0.1	3.08	2.21	1.96
◆	585—ALD110800ASCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	0.00	0.01	2	3	30	500	0.1	3.01	2.18	1.91
◆	585—ALD110900PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	0.00	0.02	10	3	30	500	0.1	1.80	1.43	1.15
◆	585—ALD110900SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	0.00	0.02	10	3	30	500	0.1	1.80	1.43	1.15
◆	585—ALD110900APAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	0.00	0.01	2	3	30	500	0.1	2.35	1.70	1.49
◆	585—ALD110900ASAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	0.00	0.01	2	3	30	500	0.1	2.35	1.70	1.49

ALD N-CHANNEL DEPLETION MODE

◆ Surface Mount

For quantities of 250 and up, call for quote.

◆	585—ALD114804PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	-0.40	0.04	20	3	30	75	0.1	2.37	1.88	1.51
◆	585—ALD114804SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	-0.40	0.04	20	3	30	75	0.1	2.37	1.88	1.51
◆	585—ALD114804APCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	-0.40	0.02	5	3	30	75	0.1	3.08	2.44	1.96
◆	585—ALD114804ASCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	-0.40	0.02	5	3	30	75	0.1	3.08	2.44	1.96
◆	585—ALD114813PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	-1.30	0.04	20	3	30	75	0.1	2.37	1.88	1.51
◆	585—ALD114813SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	-1.30	0.04	20	3	30	75	0.1	2.37	1.88	1.51
◆	585—ALD114835PCL	Quad N-Channel EPAD Matched Pair MOSFET Array	DIP-16	-3.50	0.05	20	3	30	75	0.1	2.60	2.06	1.65
◆	585—ALD114835SCL	Quad N-Channel EPAD Matched Pair MOSFET Array	SO-16	-3.50	0.05	20	3	30	75	0.1	2.60	2.06	1.65
◆	585—ALD114904PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	-0.40	0.04	20	3	30	75	0.1	1.80	1.43	1.15
◆	585—ALD114904SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	-0.40	0.04	20	3	30	75	0.1	1.80	1.43	1.15
◆	585—ALD114904APAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	-0.40	0.02	5	3	30	75	0.1	2.21	1.76	1.41
◆	585—ALD114904ASAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	-0.40	0.02	5	3	30	75	0.1	2.21	1.76	1.41
◆	585—ALD114913PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	-1.30	0.04	20	3	30	75	0.1	1.80	1.43	1.15
◆	585—ALD114913SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	-1.30	0.04	20	3	30	75	0.1	1.80	1.43	1.15
◆	585—ALD114935PAL	Dual N-Channel EPAD Matched Pair MOSFET	DIP-8	-3.50	0.05	20	3	30	75	0.1	1.98	1.57	1.26
◆	585—ALD114935SAL	Dual N-Channel EPAD Matched Pair MOSFET	SO-8	-3.50	0.05	20	3	30	75	0.1	1.98	1.57	1.26