

ALD Precision Analog ICs & Energy Harvesting Modules



ADVANCED
LINEAR
DEVICES INC

This product is RoHS compliant.

SINGLE/DUAL CMOS ANALOG RC TIMERS

Specifications:

- Improved accuracy and temperature stability
- High speed operation -- 2.5MHz typical oscillation at 5V
- High Discharge Sinking Current of 80mA at 5V

MOUSER STOCK NO.	ALD Part No.	Package	Type	Supply Volt. Drift (Typ.) (%/V)	Discharge Output Voltage Current (V)(mA)	Supply Voltage		Sup. Current (per Timer) (µA) Max.	Price Each		
						Min. (V)	Max. (V)		1	25	100
585-ALD7555PAL	ALD7555PAL	PDIP-8	Single	0.2	1.0 @ 80	2	10	90	1.94	1.57	1.41
585-ALD7555SAL	ALD7555SAL	SOIC-8	Single	0.2	1.0 @ 80	2	10	90	1.94	1.57	1.41
585-ALD7556PBL	ALD7556PBL	PDIP-14	Dual	0.2	1.0 @ 80	2	10	90	2.86	2.31	2.10
585-ALD7556SBL	ALD7556SBL	SOIC-14	Dual	0.2	1.0 @ 80	2	10	90	2.86	2.31	2.10

EPAD® ENERGY HARVESTING™ MODULES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ALD Part No.	Description	Price Each		
			1	25	100
585-EH300	EH300	1.8V to 3.6V, 4.6mJ, 68msec@25mA	56.47	49.83	47.33
585-EH300A	EH300A	1.8V to 3.6V, 30mJ, 75msec@150mA	66.30	58.50	55.57
585-EH301	EH301	3.1V to 5.2V, 8.3mJ, 80msec@25mA	56.47	49.83	47.33
585-EH301A	EH301A	3.1V to 5.2V, 55mJ, 88msec@150mA	66.30	58.50	55.57
Cables					
585-EHJ1C	EHJ1C	Two pin 6 in. Cable for EH300/EH301 w/connector	5.32	4.50	4.10
585-EHJ2C	EHJ2C	Four wire 6 in. Cable for EH300/EH301 w/connector	9.50	7.79	7.03
Kit					
585-EH300KIT	EH300KIT	Evaluation Kit (One each of EH300 and EH300A, Two each EHJ1C/EHJ2C cables)	120.00	112.00	108.00
585-EH301-KIT	EH301KIT	Evaluation Kit (One each of EH301 and EH301A, Two each EHJ1C/EHJ2C cables)	122.00	110.00	106.40

MICROPOWER STEP-UP LOW VOLTAGE BOOSTER MODULES



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ALD Part No.	Input Resistance (Ω)	Typ. Input Power @ Vin = 0.25 (mW)	Typ. Input Impedance (µW)	Min. AC Output Voltage (V)	Max. Input Power (mW)	Price Each			
							1	25	100	250
585-EH4205	EH4205	50	4V@200nA	0.8	1.8	3.6	41.94	33.58	32.40	31.18
585-EH4295	EH4295	950	4V@500nA	2	1.8	3.6	41.94	33.58	32.40	31.18

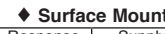
MICROPOWER STEP-UP LOW VOLTAGE BOOSTER MODULES EVALUATION KITS



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ALD Part No.	Description	Price Each			
			1	25	100	250
Evaluation Kits						
585-EH4205/EH300KIT	EH4205/EH300KIT	Evaluation Kit (One each of EH4205 and EH300, One each EHJ2C/EHJ3C/EHJ4C/EHJ5C cables)	99.00	92.40	89.10	85.80
585-EH4205/EH4295KIT	EH4205/EH4295KIT	Evaluation Kit (One each of EH4295 and EH300, One each EHJ2C/EHJ3C/EHJ4C/EHJ5C cables)	100.00	84.00	81.00	78.00
585-EH4295/EH300KIT	EH4295/EH300KIT	Evaluation Kit (One each of EH4205 and EH4295, Two each EHJ3C/EHJ4C/EHJ5C cables)	99.00	92.40	89.10	85.80
Accessories						
585-EHJ3C	EHJ3C	Two wire 6 in. Input Cable for EH4200 Series Booster Module with connector	5.32	4.50	4.10	3.70
585-EHJ4C	EHJ4C	Two wire 6 in. Output Cable for EH4200 Series Booster Module w/connectors from EH4200 to EH300/301 Modules	7.98	6.75	6.15	5.55
585-EHJ5C	EHJ5C	Four wire 6 in. Output Cable for EH4200 Series Booster Module with connector	9.90	8.14	7.35	6.80

VOLTAGE COMPARATORS



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ALD Part No.	Description	Package	Output Drive Current		Input Offset Voltage Max. (mV)	Input Bias Current Typ./Max. (pA)	Response Time Typ. (ns)	Supply Voltage Min./Max. (V)	Supply Current Per Comp (µA)	Price Each		
				Min. (mA)	Typ. (mA)						1	25	100
Ultra Low Input Offset Voltage EPAD® Dual CMOS Analog													
◆ 585-ALD2321ASCL	ALD2321ASCL	Source Sink, Push-Pull	SO-16	24 / -3.5	50 / -4.5	0.2	0.01/20	400	3/10	90	5.61	4.51	4.10
◆ 585-ALD2321BPCL	ALD2321BPCL	Source Sink, Push-Pull	DIP-16	24 / -3.5	50 / -4.5	0.5	0.01/20	400	3/10	90	3.53	3.49	2.12
◆ 585-ALD2321BSCL	ALD2321BSCL	Source Sink, Push-Pull	SO-16	24 / -3.5	50 / -4.5	0.5	0.01/20	400	3/10	90	3.53	3.49	2.03
◆ 585-ALD2321SCL	ALD2321SCL	Source Sink, Push-Pull	SO-16	24 / -3.5	50 / -4.5	1	0.01/20	400	3/10	90	3.75	3.01	2.74
Precision CMOS													
◆ 585-ALD2331APAL	ALD2331APAL	Open Drain, Dual	PDIP-8	24	50	0.5	.01/20	600	3(±1.5)	10(±5)	9.38	7.69	6.93
◆ 585-ALD2302APAL	ALD2302APAL	Push-Pull, Dual	DIP-8	24/-2.0	60/-4.5	1	10/200	180/400	4/12	250	6.79	5.86	5.29
◆ 585-ALD2302ASAL	ALD2302ASAL	Push-Pull, Dual	SO-8	24/-2.0	60/-4.5	1	10/200	180/400	4/12	250	6.79	5.86	5.29
◆ 585-ALD2303APAL	ALD2303APAL	Open Drain, Dual	DIP-8	24	60	1	10/200	5000/6500	3/12	20	6.79	5.57	5.02
◆ 585-ALD2303ASAL	ALD2303ASAL	Micropower, Dual	SOIC-8	24	60	2	10/200	650	3(±1.5)	10(±5)	6.79	5.57	5.02
◆ 585-ALD2301APAL	ALD2301APAL	Open Drain, Dual	DIP-8	24	60	2	10/200	300/650	3/12	90	6.79	5.57	5.02
◆ 585-ALD2301ASAL	ALD2301ASAL	Open Drain, Dual	SO-8	24	60	2	10/200	300/650	3/12	90	6.79	5.57	5.02
◆ 585-ALD2302SAL	ALD2302SAL	Push-Pull, Dual	SO-8	24/-2.0	60/-4.5	4	10/200	180/400	4/12	250	4.89	3.93	3.58
◆ 585-ALD2303PAL	ALD2303PAL	Open Drain, Dual	DIP-8	24	60	4	10/200	5000/6500	3/12	20	4.89	3.93	3.58
◆ 585-ALD2303SAL	ALD2303SAL	Open Drain, Dual	SO-8	24	60	4	10/200	5000/6500	3/12	20	4.89	3.93	3.58
◆ 585-ALD4302ASBL	ALD4302ASBL	Push-Pull, Quad	SOIC-14	24	60	5	10/200	400	4(±2)	10(±5)	6.30	5.07	4.61
◆ 585-ALD2301BSAL	ALD2301BSAL	Open Drain, Dual	SO-8	24	60	5	10/200	300/650	3/12	90	5.92	4.77	4.34
◆ 585-ALD4301ASBL	ALD4301ASBL	Open Drain, Quad	SO-14	24	60	5	10/200	300/650	3/12	90	6.01	4.83	4.40
◆ 585-ALD2301PAL	ALD2301PAL	Open Drain, Dual	PDIP-8	24	60	10	10/200	650	3(±1.5)	10(±5)	4.89	3.93	3.58
◆ 585-ALD4303SBL	ALD4303SBL	Open Drain, Quad	SO-14	24	60	10	10/200	5000/6500	3/12	20	5.64	4.53	4.12
◆ 585-ALD2301SAL	ALD2301SAL	Open Drain, Quad	SO-8	24	60	10	10/200	300/650	3/12	90	4.89	3.93	3.58
◆ 585-ALD4302SBL	ALD4302SBL	Push-Pull, Quad	SO-14	24/-2.0	60/-4.5	10	10/200	120/400	3/12	250	5.61	4.51	4.10
◆ 585-ALD2301CPAL	ALD2301CPAL	Open Drain, Dual	PDIP-8	24	60	20	10/400	650	3(±1.5)	10(±5)	3.19	2.57	2.33
◆ 585-ALD2301CSAL	ALD2301CSAL	Open Drain, Dual	SOIC-8	24	60	20	10/400	650	3(±1.5)	10(±5)	3.19	2.57	2.33

ULTRA LOW CHARGE INJECTION LOW VOLTAGE ANALOG SWITCHES

- Supply Voltage: Min. - 3±1.5V, Max. - 12±6V
- Supply Current: 1µA



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ALD Part No.	Description	Package	Switch Action	Charge Injection Typ./Max. (pC)	Source Off Leakage Max. (pA)	Ron (Ohm) Max.	Turn-On Time (ns) Max.	Price Each		
									1	25	100
◆ 585-ALD4201SCL	ALD4201SCL	Quad SPST NC	SO-16	Break-before-Make	1.0/2.5	100	180	240	3.19	2.57	2.33
◆ 585-ALD4202MSCL	ALD4202MSCL	Quad SPST NO	SOIC-16	Make-before-Break	1.0/2.5	100	180	240	3.19	2.57	2.33
◆ 585-ALD4213PCL	ALD4213PCL	Dual NO/Dual NC	PDIP-16	Break-before-Make	0.2/1.0	100	190	130	2.89	2.33	2.12
◆ 585-ALD4211PCL	ALD4211PCL	Quad SPST NC	DIP-16	Break-before-Make	0.2/1.0	100	190	130	2.89	2.33	2.12
◆ 585-ALD4211SCL	ALD4211SCL	Quad SPST NC	SO-16	Break-before-Make	0.2/1.0	100	190	130	3.19	2.57	2.33
◆ 585-ALD4212SCL	ALD4212SCL	Quad SPST NO	SO-16	Break-before-Make	0.2/1.0	100	190	130	3.19	2.57	2.33

A/D CONVERTER



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ALD Part No.	Description	Package	Resolution (bits)	Interface Type	Supply Voltage		Sup. Current (per Timer) (µA) Max.	Price Each		
						Min. (V)	Max. (V)		1	25	100
◆ 585-ALD500SWCL	ALD500SWCL	Dual Slope	Wide SOIC-16	16	Precision Sensor	4.5	5.5	600	7.23	5.92	5.07

PRECISION LOW DRIFT, LOW POWER, ANALOG TIMERS WITH HIGH DISCHARGE OUTPUT



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MOUSER STOCK NO.	ALD Part No.	Description	Package	Type	Supply Volt. Drift (Typ.) (%/V)	Discharge Output Voltage/Current (V)/(mA)	Supply Voltage		Sup. Current (per Timer) (µA) Max.	Price Each		
							Min. (V)	Max. (V)		1	25	100
◆ 585-ALD1502PAL	ALD1502PAL	Micropower CMOS Timer	DIP-8	Single	0.2	1.0 @ 80	2	12	90	1.94	1.57	1.41
◆ 585-ALD1502SAL	ALD1502SAL	Micropower CMOS Timer	SO-8	Single	0.2	1.0 @ 80	2	12	90	1.94	1.57	1.41
◆ 585-ALD2502PBL	ALD2502PBL	Micropower CMOS Timer	DIP-14	Dual	0.2	1.0 @ 80	2	12	90	2.80	2.26	2.03
◆ 585-ALD4501PEL	ALD4501PEL	Micropower CMOS Timer	DIP-20	Quad	0.1	1.0 @ 40	2	12	67.5	7.07	6.11	5.23
◆ 585-ALD4501SEL	ALD4501SEL	-	SOIC-20	Quad	0.1	40 @ 5	2	12	270	7.07	5.80	5.23
◆ 585-ALD555PAL	ALD555PAL	CMOS Timer	DIP-8	Single	0.1	1.0 @ 80	2	12	180	1.94	1.57	1.41
◆ 585-ALD555SAL	ALD555SAL	CMOS Timer	SO-8	Single	0.1	1.0 @ 80	2	12	180	1.94	1.57	1.41