

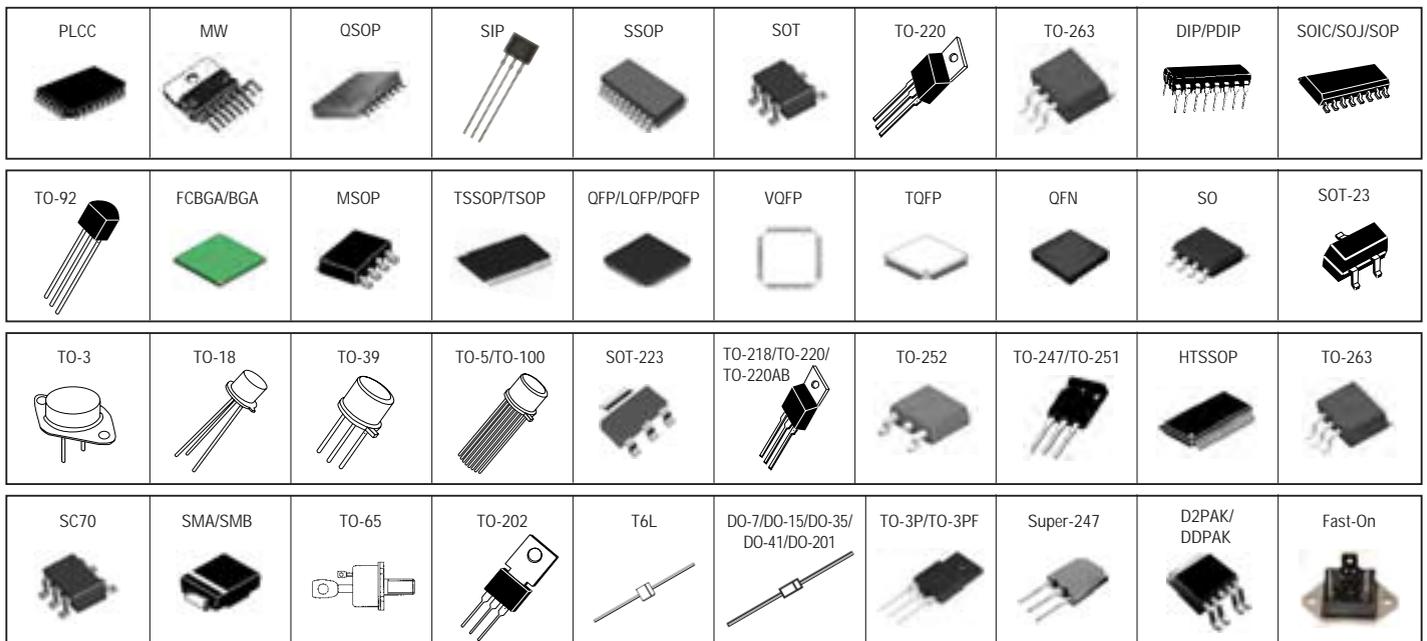
Semiconductors

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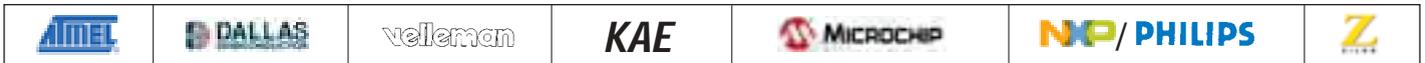
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Please refer to datasheets at [www.Jameco.com](http://www.Jameco.com) for more detailed illustrations and specifications



## Microcontrollers

QUANTITY  
SAVE

\*Web Code: PAV

Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	25
145111	MCH	PIC16F84-04/P	DIP-18	1k flash, 4MHz, 13 I/O, C-temp	\$6.59	\$4.39
145120	MCH	PIC16F84-10/P	DIP-18	1k flash, 10MHz, 13 I/O, C-temp	7.65	6.55
223790	MCH	PIC12F629-1/P	DIP-8	1k flash, 20MHz, 6 I/O, I-temp	1.65	1.24
223781	MCH	PIC12F675-1/P	DIP-8	1k flash, 20MHz, 6 I/O, I-temp	1.69	1.07
312514	MCH	PIC12F683-1/P	DIP-8	2k flash, 20MHz, 6 I/O, I-temp	2.19	2.05
193439	MCH	PIC16F627-20/P	DIP-18	1k flash, 20MHz, 16 I/O, C-temp	3.55	2.55
193447	MCH	PIC16F628-20/P	DIP-18	2K flash, 20MHz, 16 I/O, C-temp	3.49	2.85
246756	MCH	PIC16F628-20/P	DIP-18	2k flash, 20MHz, 16 I/O, I-temp	3.35	3.17
223749	MCH	PIC16F630-1/P	DIP-14	1k flash, 20MHz, 12 I/O, I-temp	2.05	1.17
247142	MCH	PIC16F648A-1/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp	3.59	2.69
223757	MCH	PIC16F676-1/P	DIP-14	1k flash, 20MHz, 12 I/O, I-temp	1.59	1.19
312590	MCH	PIC16F684-1/P	DIP-14	2k flash, 20MHz, 12 I/O, I-temp	2.45	1.62
312611	MCH	PIC16F688-1/P	DIP-14	4k flash, 20MHz, 12 I/O, I-temp	2.55	1.69
312670	MCH	PIC16F737-1/SP	DIP-28	4k flash, 20MHz, 25 I/O, I-temp	6.15	4.43
223765	MCH	PIC16F818-1/P	DIP-18	1k flash, 20MHz, 16 I/O, I-temp	3.39	2.54
223773	MCH	PIC16F819-1/P	DIP-18	2k flash, 20MHz, 16 I/O, I-temp	3.85	2.89
193332	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O, C-temp	5.59	4.66
246861	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O, I-temp	6.39	4.79
246879	MCH	PIC16F84A-20I/SO	SOIC-18	1k flash, 20MHz, 13 I/O, I-temp	7.19	5.38
246895	MCH	PIC16F870-1/SP	DIP-28	2k flash, 20MHz, 22 I/O, I-temp	4.79	3.59
246941	MCH	PIC16F872-1/SP	DIP-28	2k flash, 20MHz, 22 I/O, I-temp	4.79	2.86
246975	MCH	PIC16F873A-1/SP	DIP-28	4k flash, 20MHz, 22 I/O, I-temp	6.29	4.72
246991	MCH	PIC16F874A-1/SP	DIP-40	4k flash, 20MHz, 33 I/O, I-temp	7.39	6.00
193367	MCH	PIC16F876-20/SP	DIP-28	8k flash, 20MHz, 22 I/O, C-temp	5.39	5.35
247011	MCH	PIC16F876A-1/SP	DIP-28	8k flash, 20MHz, 22 I/O, I-temp	7.35	5.51
176882	MCH	PIC16F877-20/P	DIP-40	8k flash, 20MHz, 22 I/O, C-temp	9.29	8.05
247046	MCH	PIC16F877A-1/L	PLCC-44	8k flash, 20MHz, 33 I/O, I-temp	8.95	6.71
247038	MCH	PIC16F877A-1/P	DIP-40	8k flash, 20MHz, 33 I/O, I-temp	7.25	5.29
247097	MCH	PIC16F87-1/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp	3.85	2.99
312733	MCH	PIC16F88-1/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp	4.15	3.05
248111	MCH	PIC18F1320-1/P	DIP-18	8k flash, 40MHz, 16 I/O, I-temp	4.89	3.38
312303	MCH	PIC18F2525-1/SP	DIP-28	48k flash, 40MHz, 25 I/O, I-temp	8.89	7.98
247994	MCH	PIC18F252-1/SP	DIP-28	32k flash, 40MHz, 23 I/O, I-temp	8.79	6.59
248049	MCH	PIC18F452-1/L	PLCC-44	32k flash, 40MHz, 34 I/O, I-temp	10.35	9.14
248031	MCH	PIC18F452-1/P	DIP-40	32k flash, 40MHz, 34 I/O, I-temp	9.75	7.31
248057	MCH	PIC18F458-1/P	DIP-40	32k flash, 40MHz, 33 I/O, I-temp	10.69	6.75
145040	MCH	PIC12C508A-04/P	DIP-8	512 OTP, 4MHz, 5 I/O, C-temp	1.49	.99
144258	MCH	PIC12C509A-04/P	DIP-8	1k OTP, 4MHz, 5 I/O, C-temp	1.49	1.09
128338	MCH	PIC16C54A-04/P	DIP-18	512 OTP, 4MHz, 12 I/O, C-temp	1.45	1.09
193341	MCH	PIC16C57C-04/P	DIP-28	2k OTP, 4MHz, 20 I/O, C-temp	2.49	1.87
193359	MCH	PIC16C711-04/P	DIP-18	1k OTP, 4MHz, 13 I/O, C-temp	4.35	2.26
200467	MCH	PIC16C715-04/P	DIP-18	2k OTP, 4MHz, 13 I/O, C-temp	3.95	3.75
248330	ATM	ATMEGA8-16PI	DIP-28	8kB flash, 16MHz, 23 I/O, I-temp	6.29	4.72
323133	ATM	ATMEGA16-16PI	DIP-40	6kB flash, 16MHz, 32 I/O, I-temp	6.49	4.08
765302	ATM	ATTINY13-20PI	DIP-8	1kB flash, 20MHz, 6 I/O, I-temp	1.39	1.29
689039	ATM	ATTINY2313V-10PU	DIP-20	2kB flash, 10MHz, 18 I/O, I-temp	2.19	1.75
1537061	ATM	ATTINY2313-20PU	DIP-20	2k flash, 20MHz, 18 I/O, I-temp	2.25	2.03
248217	ATM	ATTINY26-16PC	DIP-20	2kB flash, 16MHz, 16 I/O, C-temp	2.09	1.52
699552	NXP	P80C31SBPN	DIP-40	128 x 8 RAM, LV (2.7-5.5V), LP, hi-spd (33MHz)	2.79	2.73
699579	NXP	P80C32SBPN	DIP-40	256 x 8 RAM, LV (2.7-5.5V), LP, hi-spd (33MHz)	2.51	2.00
323141	ATM	ATMEGA8515-16PC	DIP-40	8kB flash, 16MHz, 35 I/O, C-temp	4.59	3.44
699667	NXP	P87C51SBPN	DIP-40	4k x 8 OTP, LV (2.7-5.5V), LP, hi-spd (33MHz)	2.60	2.46
699675	NXP	P87C52SBAA	PLCC-44	8k x 8 OTP, LV (2.7-5.5V), LP, hi-spd (33MHz)	2.93	2.32
917687	NXP	PCF8583PN	DIP-8	Clock calendar w/ 240 x 8 RAM	3.11	2.33
168874	ATM	AT89C2051-24PC	DIP-20	2kB flash, 24MHz, 15 I/O, C-temp	2.29	1.72
204089	ATM	AT89C4051-24PC	DIP-20	4kB flash, 24MHz, 15 I/O, C-temp	2.15	1.61
168911	ATM	AT89C51-24JC	PLCC-44	4kB flash, 24MHz, 32 I/O, C-temp	4.55	4.07
168903	ATM	AT89C51-24PC	DIP-40	4kB flash, 24MHz, 32 I/O, C-temp	4.95	4.35
168920	ATM	AT89C52-24PC	DIP-40	8kB flash, 24MHz, 32 I/O, C-temp	3.65	2.95
355830	ATM	AT89S51-24PC	DIP-40	4kB flash, 33MHz, 32 I/O, C-temp	2.75	1.99

\* ATM = Atmel Semi | DAL = Dallas Semi | MCH = Microchip | NXP = NXP/Philips Semi | ZIL = Zilog | ♦ = Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com)/More and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 161.](#)



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## Microcontrollers (Continued)

QUANTITY  
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\*Web Code: PAV

Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	25
220871	ATM	AT89S52-24JI	PLCC-44	8kB flash, 24MHz, 32 I/O, I-temp	\$1.69	(\$1.27)
662637	ATM	AT89S52-24PC	DIP-40	8kB flash, 24MHz, 32 I/O, C-temp	2.15	1.61
168946	ATM	AT89C55WD-24PC	DIP-40	20kB flash, 24MHz, 32 I/O, C-temp	6.59	5.75
114403	DAL	DS80C320-MCG	DIP-40	High speed LP micro, C-temp	12.09	9.27
204097	ATM	AT89S8252-24PC	DIP-40	8kB flash, 24MHz, 32 I/O, C-temp	6.95	6.25
1951035	ATM	AT89S8253-24PU	DIP-40	12kB flash, 24MHz, 32 I/O, I-temp	4.75	4.25

## Velleman PIC™ Programmer Board

- Regularly updated list of microcontrollers through Velleman's website ([www.vellemanusa.com](http://www.vellemanusa.com))
- On-board configurable 40-pin ZIF socket
- Easy to use programming PICprog2006 software included
- On-board "In Circuit Programming" DSUB-9 connector
- Power supply: 15VDC @ 300mA adapter (recommend P/N 190001, pg 117)
- Supports over 50 PIC products. Visit website for details
- Size: 5.3"L x 2.6"W



**System requirements:** IBM compatible PC, Pentium or better, Windows® 98/ME/NT/XP/Vista, CDROM drive, RS-232 port

Part No.	Mfr. Part No.	Description	Price
2006844	VM134	PIC™ programmer board	\$99.89

## KAE Smart Serial Adapter

### Serial Converter/Stand Alone Host Controller

- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- May be used as a stand alone host w/ either the simple sequencer chip or a PIC 18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2



Part No.	Mfr. Part No.	Description	Price
1586120	KAE-SSA45-BDV1	Smart serial adapter	\$99.95

\*Digital Signal Processors Available Online — Enter Web Code YDY

## Z80 MPUs

\*Web Code: JAF

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
35561	ZIL	Z80★	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.95	\$1.65
35596	♦	Z80A★	DIP-40	4MHz CPU (MK3880N-4/780C-1)	1.99	1.79
35609	ZIL	Z80A-CTC★	DIP-28	4MHz counter timer circuit (MK3882-4)	2.45	2.19
35625	ZIL	Z80A-DART★	DIP-40	4MHz dual asynchronous receiver/trans	3.49	3.19
35641	ZIL	Z80A-PIO★	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	1.99	1.79
35668	♦	Z80A-SIO/0★	DIP-40	4MHz serial I/O (Tx/Cx & Rx/Cx bond.) MK3884-4	2.19	1.79
35705	ZIL	Z80B	DIP-40	6MHz CPU (MK3880N-6)	2.59	2.39
280428	ZIL	Z8018006VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	8.79	6.57
35781	ZIL	Z84C00-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.99	4.24
280516	ZIL	Z84C0008PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	4.85	3.62
61786	ZIL	Z85C3008PS	DIP-40	Serial communications controller	5.55	4.72

★ Pull = Extra Savings

## Programming & Customizing PICmicro Microcontrollers

McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. (1190 pages, 2001) Includes: PIC PCB Blue P/N = Limited Quantity



Part No.	Description	Size	Wt. (lbs.)	Price
183046	PICmicro Programming	9.2" x 7.3"	4.0	\$54.95

## 6500 Series

Please Note: Manufacturer may vary **★ Web Code: NAG**

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43191	6502★	DIP-40	CPU, 8-bit, 1MHz	\$5.75	\$4.89	\$4.16
43166	65C02★	DIP-40	CPU, 8-bit, 1MHz	5.95	5.25	4.95
43254	6522★	DIP-40	Versatile interface adapter, 1MHz	4.95	4.21	3.71
43297	6532	DIP-40	RAM I/O timer, 1MHz	7.95	6.99	6.49
43318	6551	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.36	2.52

★ Pull = Extra Savings

## 6800/68000 CMOS

**QUANTITY SAVE** **★ Web Code: SBP**

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	\$10.65	\$8.70	\$7.86
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	12.75	9.69	8.95
248647	MC68HC705C8ACFN	PLCC-44	MCU, 8-bit, 31 I/O, 4MHz	9.35	8.95	(6.71)
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	9.95	8.95	8.02
132530	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	3.85	2.45	2.07
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	18.99	16.14	14.24

## 6800/68000 N-MOS

**★ Web Code: PAG**

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10
43481	◆	6800★	DIP-40	CPU, 8-bit, 5V, 2MHz	\$6.95	\$5.95
43502	◆	6802	DIP-40	CPU, 8-bit, 5V, 1MHz	9.85	8.87
43529	◆	6803★	DIP-40	CPU, 8-bit, 5V, 1MHz	7.79	6.99
43537	◆	6808	DIP-40	CPU, 8-bit, 7V, 1MHz	7.95	7.65
43545	◆	6809E★	DIP-40	CPU, 8-bit, 7V, 1MHz	4.39	3.99
320590	◆	68B09E	DIP-40	CPU, 8-bit, 7V, 2MHz	4.75	4.25
43561	◆	6810	DIP-24	SRAM, 1K-bit, 5V, 1MHz	3.55	3.18
43596	◆	6821★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	3.95	3.59
43414	◆	68B21★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49
43617	◆	6840	DIP-28	Programmable timer, 16-bit, 5V, 6MHz	2.49	2.25
43633	◆	6850★	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	4.39	3.88
25304	◆	MC68000L8★	DIP-64	CPU, 16-bit, 7V, 8MHz	9.95	8.95
25291	◆	MC68000L10★	DIP-64	CPU, 16-bit, 7V, 10MHz	9.95	8.95
25363	MOT	MC68705P3S	DIP-28	MCU, 8-bit, 20 I/O, 4MHz	25.95	23.95

★ Pull = Extra Savings

## 8000 CMOS

**QUANTITY SAVE** Please Note: Manufacturer may vary **★ Web Code: BAH**

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10	100
51676	◆	80C31★	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	\$2.99	\$2.08	\$1.56
876096	INT	P80C31BH-1	DIP-40	MCU, 8-bit, 32 I/O, 16MHz, 5V	3.05	2.53	1.82
108804	◆	80C32-1★	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	4.49	3.85	(2.89)
51692	◆	80C39★	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	3.59	3.23	2.91
125647	◆	80C52BASIC	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	33.45	32.75	29.47
51705	◆	80C85A-2	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	7.25	6.54	4.91
52193	◆	81C55★	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.60	3.19
52370	◆	82C51A★	DIP-28	USART, 3V to 6V	3.95	3.48	(2.61)
52388	◆	82C53-5	DIP-24	Prog. interval timer, 8MHz	3.65	3.08	(2.31)
52396	◆	82C54	DIP-24	Prog. interval timer, 8MHz	5.05	4.29	(3.21)
52409	◆	82C54-2	DIP-24	Prog. interval timer, 10MHz	4.49	4.05	3.59
52417	◆	82C55A	DIP-40	CPU peripheral, 5MHz	4.99	4.48	(3.36)
52425	◆	82C55A-5	DIP-40	CPU peripheral, 5MHz	4.59	4.07	3.56
52978	◆	87C51◆	DIP-40	MCU, 8-bit, 32 I/O, 33MHz	21.99	18.68	(14.01)
196120	◆	P87C51	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	5.09	4.33	3.82

★ Pull = Extra Savings ◆ Refurbished = Backed by Jameco

## 8000 N-MOS

**QUANTITY SAVE** Please Note: Manufacturer may vary **★ Web Code: CAH**

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51844	8031★	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	\$3.45	\$3.15	\$2.80
102197	8032	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	4.15	3.77	3.41
51861	8035★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	3.95	3.59	3.25
51959	8039★	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	4.49	3.82	(2.86)
51983	8049★*	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	3.09	2.74	2.49
51991	8051AP★**	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	5.49	4.99	4.49
52046	8080A★	DIP-40	CPU, 8-bit, 32 I/O, 1MHz	5.45	4.79	4.35
52062	8085AH★	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	5.25	4.75	4.49

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM ★ Pull = Extra Savings

## 8000 N-MOS (Cont.)

Please Note: Manufacturer may vary **★ Web Code: CAH**

Part No.	Cross Ref.	Pkg.	Description	1	10	100
52071	8085AH-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	\$5.49	\$4.99	\$4.49
52100	8086-2★	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	1.95	1.75	1.59
52142	8088★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	2.49	2.25	1.99
52169	8088-2★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	4.95	4.49	3.95
34358	UPD70108-8★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	10.99	9.34	7.01
52290	8155	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.82	(2.87)
52302	8155-2★	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	5.95	5.39	4.85
52468	8212★	DIP-24	I/O port timer, 8-bit, 3MHz	6.49	5.99	5.49
52492	8224	DIP-16	Clock generator/driver	2.95	2.49	2.25
52513	8228	DIP-28	System contr./bus driver	3.69	3.19	2.36
52581	8243★	DIP-24	I/O expander, 5V, MIL temp	5.49	4.94	3.71
52644	8251◆	DIP-28	USART	2.99	2.69	2.39
52652	8251A★	DIP-28	Prog. communications interface	4.09	3.80	3.49
52679	8253★	DIP-24	Prog. interval timer, 2MHz	3.19	2.89	2.59
52687	8253-5◆	DIP-24	Prog. interval timer, 2MHz	3.95	3.75	3.49
52708	8254★	DIP-24	Prog. interval timer, 8MHz	4.79	4.27	3.84
52716	8254-2★	DIP-24	Prog. interval timer, 10MHz	5.95	5.49	4.95
52724	8255★	DIP-40	CPU peripheral, 2MHz	4.49	3.99	3.49
52732	8255A-5★	DIP-40	CPU peripheral, 5MHz	4.89	4.39	3.75
291805	8255AC-5◆	DIP-40	CPU peripheral, 4MHz	5.89	5.30	3.98
52759	8256★	DIP-40	Multi func. µproc. support controller	19.99	17.99	16.19
52775	8259★	DIP-28	Prog. interrupt controller	1.75	1.55	1.45
52783	8259-5★	DIP-28	Prog. interrupt controller	2.25	2.05	1.75
52839	8279★	DIP-40	CPU peripheral, 5MHz	12.99	11.99	10.99
52847	8279-5★	DIP-40	CPU peripheral, 5MHz	12.95	11.69	10.49
52855	8282★	DIP-20	Octal latch bus driver	5.69	4.84	3.63
52871	8284A★	DIP-18	Clock generator/driver, 8MHz	4.95	4.40	3.95
52898	8286	DIP-20	Octal bus transceiver	4.09	3.73	3.38
52901	8287	DIP-20	Octal bus transceiver	10.19	9.26	6.95
53014	8742	DIP-40	MCU, 8-bit, 18 I/O, 12MHz	9.95	8.95	7.95
53022	8748◆	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	13.95	12.95	11.95
53031	8748H◆	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	14.95	13.95	12.95
53057	8749H◆	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	19.95	17.95	15.95
53081	8751H◆	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	19.95	17.95	15.95

★ Pull = Extra Savings ◆ Refurbished = Backed by Jameco

## PARALLAX 8 Propeller Microprocessor Chip

NEW  
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The Propeller module is a multi-processing chip, with shared memory and a built-in interpreter for programming in a high-level object-oriented language, called Spin™, and low-level (assembly) language.

Complete specifications & photos on page 160 or online

Part No.	Mfr. Part No.	Pkg.	1	10	100
2007134	P8X32A-D40	DIP-40	\$12.89	\$11.71	
2007142	P8X32A-M44	QFN-44	12.89	12.29	
2007151	P8X32A-Q44	LOFP-44	12.89	12.85	

\* Ethernet Controllers Available Online — Enter Web Code LAE

## Voice Chips

★ Web Code: XAU

### Single-Chip Voice Record/Playback Devices

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Typical 100k record cycles, 1µA standby current and 100 year message retention
- Playback can be edge or level-activated • 28-pin DIP



Part No.	Mfr. Part No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	\$5.95	\$5.35	\$4.85
141655	ISD25120P	Voice record/playback (120 sec.)	12.95	11.65	10.49

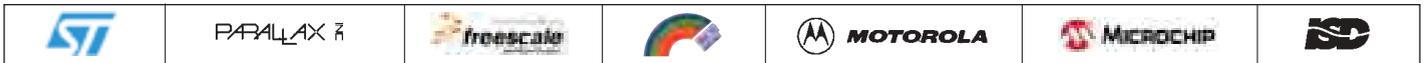
## PARALLAX 8 50MIPS SX Microcontroller

Part No.	Mfr. Part No.	Description	1	10	100
162931	SX28AC/DP	DIP-28 50MIPS SX microcontroller	\$4.99	\$4.24	\$3.74

\* INT = Intel | MOT = Motorola | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



## 80C52-Basic Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Mfr. Part No.	Description	1	10	100
125647	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$33.45	\$32.75	\$29.47

## PARALLAX BASIC Stamp

Ideal for controller applications including robotics, radio-controlled interfaces of a digital camera, and much more. The BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices.

- Current draw @ 5V: 8mA run/100µA
- Volts required: 5-15VDC
- 24-pin DIP
- Microcontroller: PIC16C57
- Program speed: 4000/sec.
- Size: 1.2"L x 0.6"W

**Includes:** Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Part No.	Mfr. Part No.	Pkg.	See page 125 for Serial LCD Modules	1	10
130892	BS2-IC	24-pin		\$48.79	\$43.66

## PARALLAX 50MHz BASIC Stamp 2SX Module

- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep
- Volts required: 5-12 VDC
- RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC

Part No.	Mfr. Part No.	Pkg.	No. of I/O Pins	1	10
159775	BS2SX-IC	24-pin	16 + 2 serial	\$58.99	\$55.99

## PARALLAX BASIC Stamp 2P Modules

In addition to the BS2-SX (above) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- Voltage requirements: 5-12VDC
- Current draw @ 5V: 40mA run; 400µA sleep
- Scratch pad RAM: 128 bytes

Part No.	Mfr. Part No.	Pkg.	No. of I/O Pins	1	10
184911	BS2P24-IC	24-pin	16 + 2 serial	\$78.75	\$74.50
184920	BS2P40-IC	40-pin	32 + 2 serial	88.75	84.00

## MICROCHIP PICDEM™ USB Demo Board

The PICDEM FS USB demonstration kit is designed as an easy-to-use evaluation platform for Microchip's full speed USB solution. The devices in Microchip's new family of USB microcontrollers fully support USB2.0 and serial communications of up to 12Mbits/s. This kit provides all of the hardware and software needed to demonstrate and develop a complete USB communication solution. The microcontroller for the PICDEM board is the PIC18F4550, the principal device of the PIC18F2455/2550/4455/4550 family. All of these devices implement power-saving nano-watt technology, enhanced flash program memory and feature USB modules with:

- Full-speed (12Mbit/s) and low-speed (1.5Mbit/s) operation
- Support of control, interrupt, bulk and isochronous transfers
- On-chip features for a true-single chip USB implementation
- 1kbyte of dual-access RAM for USB
- USB 2.0 compliance
- Interface for off-chip USB transceiver
- Support of up to 32 end points

Part No.	Mfr. Part No.	Description	1	10	100
697207	DM163025	USB demo board	\$90.49	\$86.99	\$82.64

## MICROCHIP PICKIT™ 2 Microcontroller Starter Kit

The PICKIT™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website. This kit includes PICKIT™ 2 microcontroller programmer, USB cable and CD ROM.



Part No.	Mfr. Part No.	Description	1	10	100
697338	DV164120	Programmer starter kit	\$83.89	\$79.75	\$69.05

## EPROMs

Part No.	*Mfr.	Cross Ref.	Pkg. †	Config.	Description	1	10	100
39909	♦	2708	DIP-24	1k x 8	450ns, 5V	\$4.95	\$4.45	\$3.95
33611	♦	TMS2716	DIP-24	2k x 8	450ns, 5V	2.25	1.99	1.79
40002	♦	2716	DIP-24	2k x 8	450ns, 5V	4.15	3.79	3.35
308662	♦	2716A-2	DIP-24	2k x 8	200ns, 5V	4.95	3.95	2.96
40011	♦	2716-1	DIP-24	2k x 8	350ns, 5V	4.95	4.49	3.95
33591	♦	TMS2532	DIP-24	4k x 8	450ns, 5V	3.99	3.59	3.19
40096	♦	2732	DIP-24	4k x 8	450ns, 5V	5.95	5.49	4.95
39765	♦	2732C	DIP-24	4k x 8	450ns, 5V	6.59	5.94	5.34
40133	♦	2732A-45	DIP-24	4k x 8	450ns, 5V	4.19	3.88	3.45
114876	♦	2732B	DIP-24	4k x 8	450ns, 5V	3.95	3.79	3.09
40125	♦	2732A-25	DIP-24	4k x 8	250ns, 5V	4.99	4.49	3.99
40109	♦	2732A-20	DIP-24	4k x 8	200ns, 5V	5.95	5.49	4.95
266001	♦	27C32-150	DIP-24	4k x 8	150ns, 5V	7.35	6.29	5.24
40205	♦	2764-25	DIP-28	8k x 8	250ns, 5V	3.95	3.75	3.49
40248	♦	2764A-25	DIP-28	8k x 8	250ns, 5V	3.99	3.69	3.09
39845	♦	27C64-25	DIP-28	8k x 8	250ns, 5V	3.75	3.49	3.19
40192	♦	2764-20	DIP-28	8k x 8	200ns, 5V	4.25	3.95	3.65
40230	♦	2764A-20	DIP-28	8k x 8	200ns, 5V	4.49	4.09	3.69
74608	♦	27C64-20	DIP-28	8k x 8	200ns, 5V	4.25	3.61	2.80
698349	ST	M27C64A-20F6	FDIP-28	8k x 8	200ns, 5V (±10%)	6.09	5.80	5.30
698322	ST	M27C64A-15F1	FDIP-28	8k x 8	150ns, 5V (±10%)	4.95	4.30	3.21
39829	♦	27C64-15	DIP-28	8k x 8	150ns, 5V	3.95	3.36	2.96
105304	♦	27C64-12	DIP-28	8k x 8	120ns, 5V	3.55	3.29	2.98
266036	♦	27C64-100	DIP-28	8k x 8	100ns, 5V	4.29	3.77	2.83
39933	♦	27128-25	DIP-28	16k x 8	250ns, 5V	3.95	3.75	3.49
39984	♦	27128A-25	DIP-28	16k x 8	250ns, 5V	3.75	3.49	3.15
39685	♦	27C128-25	DIP-28	16k x 8	250ns, 5V	4.25	3.81	3.49
39968	♦	27128A-20	DIP-28	16k x 8	200ns, 5V	3.95	3.75	3.49
101101	♦	27C128-20	DIP-28	16k x 8	200ns, 5V	4.39	3.95	3.56
39950	♦	27128A-15	DIP-28	16k x 8	150ns, 5V	4.15	3.95	3.65
87935	♦	27C128-12	DIP-28	16k x 8	120ns, 5V	4.49	4.25	3.75
266061	♦	27C128-100	DIP-28	16k x 8	100ns, 5V	5.25	4.46	3.94
149665	♦	27C128-70	DIP-28	16k x 8	70ns, 5V	4.95	4.45	3.95
40061	♦	27256-25	DIP-28	32k x 8	250ns, 5V	3.25	2.75	2.49
39731	♦	27C256-25	DIP-28	32k x 8	250ns, 5V	1.95	1.75	1.49
40045	♦	27256-20	DIP-28	32k x 8	200ns, 5V	3.39	2.96	2.69
39722	♦	27C256-20	DIP-28	32k x 8	200ns, 5V	3.15	2.99	2.63
40037	♦	27256-15	DIP-28	32k x 8	150ns, 5V	3.45	3.25	2.93
39714	♦	27C256-15	DIP-28	32k x 8	150ns, 5V	2.15	1.85	1.65
698111	ST	M27C256B-15F1	FDIP-28	32k x 8	150ns, 5V	3.99	3.45	2.21
65904	♦	27C256-12	DIP-28	32k x 8	120ns, 5V	2.19	2.09	1.88
698091	ST	M27C256B-12F1	FDIP-28	32k x 8	120ns, 5V, C-temp	3.49	3.10	2.49
698103	ST	M27C256B-12F6	FDIP-28	32k x 8	120ns, 5V, I-temp	3.15	2.79	2.12
112740	♦	27C256-10	DIP-28	32k x 8	100ns, 5V	2.95	2.80	2.35
140476	♦	27C256-70	DIP-28	32k x 8	70ns, 5V	3.75	3.50	3.30
698082	ST	M27C256B-10F1	FDIP-28	32k x 8	100ns, 5V	3.09	2.68	1.99
266079	♦	27C256-55	DIP-28	32k x 8	55ns, 5V	4.75	4.15	3.09

♦ Refurbished = Backed by Jameco † FDIP = Ceramic frit seal

\* ST = ST Micro ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# EPROMs, OTP/PROMs, EEPROMs & Flash Memory

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Semiconductors

## EPROMs (Continued)

QUANTITY SAVE \*Web Code: XAF

Part No.	*Mfr.	Cross Ref.	Pkg.	Config.	Description	1	10	100
39802	+	27C512-25	DIP-28	64k x 8	250ns, 5V	\$3.75	\$3.47	\$3.11
40150	+	27512-20	DIP-28	64k x 8	200ns, 5V	2.69	2.39	2.19
39790	+	27C512-20	DIP-28	64k x 8	200ns, 5V	3.75	3.47	3.11
39781	+	27C512-15	DIP-28	64k x 8	150ns, 5V	2.29	2.05	1.79
698234	ST	M27C512-15F1	FDIP-28	64k x 8	150ns, 5V	4.25	3.50	3.25
39773	+	27C512-12	DIP-28	64k x 8	120ns, 5V	2.39	2.20	1.69
698226	ST	M27C512-12F1	FDIP-28	64k x 8	120ns, 5V	3.35	3.15	2.98
131959	+	27C512-10	DIP-28	64k x 8	100ns, 5V	3.39	2.88	2.54
698218	ST	M27C512-10F1	FDIP-28	64k x 8	100ns, 5V	3.95	3.45	2.95
175206	+	27C512-90	DIP-28	64k x 8	90ns, 5V	2.09	1.74	1.52
698306	ST	M27C512-90F1	FDIP-28	64k x 8	90ns, 5V, C-temp	3.39	3.35	3.25
698314	ST	M27C512-90F6	FDIP-28	64k x 8	90ns, 5V, I-temp	2.89	2.51	2.19
203625	+	27C512-70	DIP-28	64k x 8	70ns, 5V	3.09	2.78	1.97
698251	ST	M27C512-45XF1	FDIP-28	64k x 8	45ns, 5V (±5%)	2.65	2.39	2.12
118148	+	27C1024-15	DIP-40	64k x 16	150ns, 5V	5.29	4.79	4.39
203641	+	27C1024-12	DIP-40	64k x 16	120ns, 5V	6.29	6.15	4.55
697987	ST	M27C1001-15F1	FDIP-32	128k x 8	150ns, 5V	3.85	3.41	3.17
697961	ST	M27C1001-12F1	FDIP-32	128k x 8	120ns, 5V	4.25	3.61	2.70
697944	ST	M27C1001-10F1	FDIP-32	128k x 8	100ns, 5V	4.25	3.80	2.70
698007	ST	M27C1001-70F1	FDIP-32	128k x 8	70ns, 5V	3.99	3.34	3.19
39651	+	27C010-15	DIP-32	128k x 8	150ns, 5V	2.35	2.15	1.85
74624	+	27C010-12	DIP-32	128k x 8	120ns, 5V	2.39	2.25	1.45
79231	+	27C010-10	DIP-32	128k x 8	100ns, 5V	2.09	1.78	1.34
146149	+	27C010-70	DIP-32	128k x 8	70ns, 5V	2.65	2.41	2.20
394708	ATM	AT27C010-70PI	DIP-32	128k x 8	70ns, 5V, OTP	1.49	1.40	1.33
266095	+	27C010-55	DIP-32	128k x 8	55ns, 5V	4.15	3.72	3.49
65699	+	27C020-15	DIP-32	256k x 8	150ns, 5V	3.95	3.75	3.49
78852	+	27C020-12	DIP-32	256k x 8	120ns, 5V	4.05	3.84	2.88
156267	+	27C020-10	DIP-32	256k x 8	100ns, 5V	2.95	2.85	2.65
698031	ST	M27C2001-12F1	FDIP-32	256k x 8	120ns, 5V	5.49	4.61	4.19
698023	ST	M27C2001-10F1	FDIP-32	256k x 8	100ns, 5V	5.45	5.19	4.50
698200	ST	M27C4002-12F1	FDIP-40	256k x 16	120ns, 5V	8.49	7.97	7.43
698197	ST	M27C4002-10F1	FDIP-40	256k x 16	100ns, 5V	7.75	7.62	6.81
127933	+	27C4096-12	DIP-40	256k x 16	120ns, 5V	6.59	5.60	4.20
85462	+	27C040-15	DIP-32	512k x 8	150ns, 5V	4.75	4.45	3.75
102293	+	27C040-12	DIP-32	512k x 8	120ns, 5V	5.05	4.35	3.75
698171	ST	M27C4001-15F1	FDIP-28	512k x 8	150ns, 5V	7.65	6.98	5.30
698154	ST	M27C4001-12F1	FDIP-28	512k x 8	120ns, 5V	6.05	5.42	4.38
698146	ST	M27C4001-10F1	FDIP-28	512k x 8	100ns, 5V	6.09	5.48	5.05
698189	ST	M27C4001-80XF1	FDIP-28	512k x 8	80ns, 5V (±5%)	6.39	5.68	4.59
111780	+	27C040-10	DIP-32	512k x 8	100ns, 5V	5.05	4.35	3.26
266124	+	27C040-70	DIP-32	512k x 8	70ns, 5V	5.19	4.70	3.49
140003	+	27C080-12	DIP-32	1M x 8	120ns, 5V	10.05	9.50	8.50
698357	ST	M27C801-100F1	FDIP-32	1M x 8	100ns, 5V (±10%)	6.79	6.07	5.80
156275	+	27C080-10	DIP-32	1M x 8	100ns, 5V	7.79	7.40	7.03
203684	+	27C080-90	DIP-32	1M x 8	90ns, 5V	10.85	9.22	6.92

✦ Refurbished = Backed by Jameco † FDIP = Ceramic frit seal

## EPROM Accessory

Part No.	Cross Ref.	Description	1	5
13864	CF2	Conductive foam (12" x 24" x .25") hard black	\$9.75	\$8.77

## OTP/PROMs

\*Web Code: WAG

Part No.	*Mfr.	Cross Ref.	Pkg.	Config.	Description	1	10	100
48717	+	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	\$8.95	\$8.05	\$7.25
27844	+	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	5.99	5.39	4.89
27764	+	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	11.39	10.92	10.38
48696	+	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	12.95	11.65	9.95
48805	+	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	3.15	2.56	2.22
27781	+	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	10.55	10.02	8.79

\* ATM = Atmel Semiconductor | ST = ST Micro | ✦ Manufacturer Varies

## OTP/PROMs (Continued)

QUANTITY SAVE \*Web Code: WAG

Part No.	*Mfr.	Cross Ref.	Pkg.	Config.	Description	1	10	100
27810	+	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	\$8.95	\$8.05	\$6.04
27836	+	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	9.15	7.99	7.29
394986	ATM	AT27C256R-45PI	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	3.09	2.76	2.08
266255	+	27C256-15	PLCC-32	32k x 8	256-kbit, 5V, 150ns, OTP	1.15	1.05	.79
395081	ATM	AT27C512R-70PI	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	2.09	1.99	1.88
203692	+	27C512-12 OTP	DIP-28	64k x 8	512-kbit, 5V, 100ns, OTP	2.29	2.09	1.55
394708	ATM	AT27C010-70PI	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	1.49	1.40	1.33

## EEPROMs

QUANTITY SAVE \*Web Code: GAM

Part No.	*Mfr.	Cross Ref.	Pkg.	Config.	Description	1	10	100
102058	+	93C46	DIP-8	64 x 16	3-wire serial, 2-5V	\$0.33	\$0.30	\$0.22
108855	+	93C56	DIP-8	128 x 16	3-wire serial, 2-5V	.29	.26	.19
200598	+	93C66	DIP-8	256 x 16	3-wire serial, 2-5V	.35	.33	.28
108847	+	24C04P	DIP-8	512 x 8	2-wire serial, 2-5V	.71	.60	.48
200547	+	24C08-10	DIP-8	1k x 8	2-wire serial, 2-5V	.85	.80	.60
200555	+	24C16-10	DIP-8	2k x 8	2-wire serial, 5V	1.29	1.20	.90
276699	+	28C16	SOIC-24	2k x 8	Page parallel, 5V	2.79	2.29	1.72
74691	+	28C16A-25	DIP-24	2k x 8	Page parallel, 5V	3.99	3.69	3.39
276701	+	28C17	DIP-28	2k x 8	Page parallel, 5V	3.85	3.27	2.45
40416	+	2817A-25	DIP-28	2k x 8	Page parallel, 5V	4.95	4.49	3.95
74827	+	28C64A-25	DIP-28	8k x 8	Page parallel, 5V	4.45	3.80	3.65
40475	+	2865A	DIP-28	8k x 8	5V	4.95	4.49	4.05
200580	+	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V	2.49	2.35	1.90
74878	+	28C256-25	DIP-28	32k x 8	Page parallel, 5V	7.15	6.25	4.70
74843	+	28C256-15	DIP-28	32k x 8	Page parallel, 5V	8.99	7.65	5.74
845054	ATM	AT28C256-15PI	DIP-28	32k x 8	Page parallel, 5V, I-temp	11.99	10.19	8.99
276832	+	24C512	DIP-8	64k x 8	2-wire serial, 2-5V	2.29	2.15	2.09
276912	+	24C1024	DIP-8	128k x 8	2-wire serial, 2.7-5V	6.65	5.18	4.77

\* Interface Controllers Available Online — Enter Web Code HAS

\* I<sup>2</sup>C SMBus Available Online — Enter Web Code SAS

## 5V Boot Block Flash

\*Web Code: MEH

Part No.	Mfr. Part No.	Pkg.	Config.	Description	Temp.	1	10	100
1838260	AM29F040B-90PD	PDIP-32	512k x 8	90ns, 4MB 5V unif. sector	C	\$2.45	\$2.26	\$2.06

\* Page Mode Flash Available Online — Enter Web Code BCR

## Flash Memory

QUANTITY SAVE Please Note: Manufacturer may vary \*Web Code: KAJ

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
74771	28F010-15	DIP-32	128k x 8	150ns, 5V	\$4.95	\$4.35	\$3.95
242587	29F010-120	DIP-32	128k x 8	120ns, 5V	4.75	4.38	3.78
242595	29F010-90	DIP-32	128k x 8	90ns, 5V	6.39	5.21	3.91
242608	29F010-70	DIP-32	128k x 8	70ns, 5V	6.09	5.18	3.89
242616	29F020-12	DIP-32	256k x 8	120ns, 5V	5.99	5.86	4.95
242659	29F040-120	DIP-32	512k x 8	120ns, 5V	25.59	23.00	20.70
242667	29F040-90	DIP-32	512k x 8	90ns, 5V	9.05	8.60	8.15

\* SDRAMs Available Online — Enter Web Code RAY

## Legacy DRAM

Please Note: Manufacturer may vary \*Web Code: AEN

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
41662	4164-150	DIP-16	64k x 1	150ns (MCM6665-15)	\$1.09	\$1.05	\$0.95
41574	41464-10	DIP-18	64k x 4	100ns (HY53C464S-10)	1.69	1.59	1.49
41398	41256-120	DIP-16	256k x 1	120ns (MB81256-12)	.73	.62	.47
42315	514256P-80	DIP-20	256k x 4	80ns (UPD424256-80)	1.75	1.55	1.35
128688	HM514260	SOJ-20	256k x 16	70ns	3.39	3.05	2.75

★ Pull = Extra Savings

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161

# Static RAM, PALs, GALs, 74AC/ACT & 74F Series



## Static RAM

\*Web Code: WAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10
38931	◆	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns	\$1.69	\$1.55
42198	◆	5101★	DIP-22	256 x 4	1-Kbit, 5V, 450ns	7.99	7.19
38957	◆	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns	1.95	1.75
43238	◆	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns	3.95	3.65
38973	◆	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns	2.05	1.95
38981	◆	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP	2.25	2.05
38746	◆	2016-20	DIP-24	2k x 8	16-Kbit, 5V, 200ns	.87	.80
114260	DAL	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV	14.35	12.20
25911	◆	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns	7.59	7.20
42809	◆	6116P-3★	DIP-24	2k x 8	16-Kbit, 5V, 150ns	1.49	1.29
42753	◆	6116LP-3★	DIP-24	2k x 8	16-Kbit, 5V, 150ns, LP	1.95	1.75
42788	◆	6116P-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.95	1.66
42737	◆	6116LP-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP	1.99	1.79
242333	◆	CY7C185-35	DIP-28	8k x 8	64-Kbit, 5V, 35ns Async.	3.95	3.36
1927473	ALM	AS6C6264-55PCN	PDIP-28	8k x 8	64K LP, 55ns, 2.7-5.5V, C-temp	2.75	2.34
392294	CPS	CY6264-70SNC	SOIC-28	8k x 8	64-Kbit, 5V, 70ns	3.29	2.95
85121	◆	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP	3.55	3.17
42884	◆	6264LP-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP	2.95	2.75
42921	◆	6264P-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns	2.75	2.49
42892	◆	6264LP-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP	2.75	2.55
42930	◆	6264P-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns	2.65	2.36
114278	DAL	DS1225AB-15	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV	15.99	13.59
114307	DAL	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV	15.95	14.49
242376	◆	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Async.	1.99	1.75
1927414	ALM	AS6C62256-55PCN	PDIP-28	32k x 8	256K LP, 55ns, 2.7-5.5V, C-temp	2.75	2.34
171713	DAL	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV	15.75	13.39
114323	DAL	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV	20.25	17.10
41970	◆	43256-10L★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	5.25	4.75
41988	◆	43256-12L★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	4.99	4.49
75037	◆	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns	3.39	2.99
82472	◆	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	4.95	4.21
391793	CPS	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns	2.99	2.54
391822	CPS	CY62256LL-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.99	2.45
391890	CPS	CY62256LL-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.99	2.54
42876	◆	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP	3.29	2.64
42833	◆	62256LP-10★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	2.95	2.75
42850	◆	62256LP-12★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	2.75	2.55
1927799	ALM	AS7C1026B-12JCN	SOJ-44	64k x 16	1M, 12ns, 5V, C-temp	3.45	3.09
1927457	ALM	AS6C1008-55PCN	PDIP-32	128k x 8	1M LP, 55ns, 2.7-5.5V, C-temp	3.19	2.85
1927748	ALM	AS7C1025B-12JCN	SOJ-32	128k x 8	1M, 12ns, 3.3V, C-temp	3.45	3.09
391831	CPS	CY62128BLL-70SC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP	3.55	3.19
391996	CPS	CY62128BLL-70ZC	TSSOP-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.85	2.30
279873	◆	628128S-70	SOP-32	128k x 8	1-Mbit, 5V, 70ns	2.49	2.19
131810	◆	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP	9.95	7.95
103982	◆	628128LP-85★	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP	10.65	7.95
1927617	ALM	AS6C4008-55PCN	PDIP-32	512k x 8	4M LP, 55ns, 2.7-5.5V, C-temp	5.99	5.39
1927625	ALM	AS6C4008-55SIN	SOP-32	512k x 8	4M LP, 55ns, 2.7-5.5V, I-temp	5.49	4.89
157358	◆	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP	19.59	17.75
280049	◆	628512S-70	SOP-32	512k x 8	4-Mbit, 5V, 20ns, Async.	6.29	5.69

★ Pull = Extra Savings    † Center power & ground    Ⓢ Blue Part No. = Limited Quantity Available

## PALs, GALs & PEELs

NEW MARKED IN PINK

\*Web Code: YAD

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10
28020	◆	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	\$2.39	\$1.93
111667	◆	PAL16R6ANC	DIP-20	TTL, 32 x 64 AND array	1.49	1.25
652615	◆	16V8-7	DIP-20	7ns 64 x 32 AND array	3.29	2.80
88399	◆	16V8-10*	DIP-20	10ns 64 x 32 AND array	2.09	1.88
37452	◆	16V8-15*	DIP-20	15ns 64 x 32 AND array	1.59	1.40
37461	◆	16V8-25*	DIP-20	25ns 64 x 32 AND array	1.35	1.16
1427735	LAT	GAL16V8D-15LPN	DIP-20	15ns 64 x 32 AND array	1.99	1.38

\* ALM = Alliance Memory    ANA = Anachip    CPS = Cypress Semiconductor    DAL = Dallas Semiconductor    LAT = Lattice Semiconductor    ◆ Manufacturer Varies

## PALs, GALs & PEELs (Continued)

\*Web Code: YAD

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10
105953	ANA	18CV8P-25	DIP-20	25ns 74 x 36 AND array, PEEL	\$2.69	\$2.39
88292	◆	20V8-10**	DIP-24	10ns 64 x 40 AND array	2.75	1.98
38658	◆	20V8-15**	DIP-24	15ns 64 x 40 AND array	1.85	1.24
105996	ANA	22CV10AP-25	DIP-24	25ns 132 x 44 AND array, PEEL	2.59	2.35
123801	◆	22V10-10	DIP-24	10ns 132 x 44 AND array	5.49	4.99
876951	LAT	GAL22V10D-15LP	DIP-24	15ns 132 x 44 AND array	7.25	6.16
39159	◆	22V10-15	DIP-24	15ns 132 x 44 AND array	4.49	3.96
39167	◆	22V10-25	DIP-24	25ns 132 x 44 AND array	4.25	3.72

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

\*CPLDs, FLEX FPGAs Available Online — Enter Web Code SAZ

## 74AC/ACT Series

\*Web Code: CDR

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	* Order in multiples of 10	
					1	10
238887	◆	74AC10N	DIP-14	Triple 3-input NAND gate	* \$1.06	* \$0.95
238730	◆	74AC139N	DIP-16	Dual 2 to 4 decoder/demux	* .166	* .125
238764	◆	74AC157N	DIP-16	Quad 2-input multiplexer	.49	.45
211983	◆	74ACT08N	DIP-14	Quad 2-input AND gate	* .17	* .128
266159	◆	74ACT08M	SOIC-14	Quad 2-input AND gate	* .15	* .112
212003	◆	74ACT32N	DIP-14	Quad 2-input OR gate	* .189	* .142
212011	◆	74ACT74N	DIP-14	Dual D-type positive edge trigg flip-flop	* .189	* .143
239054	◆	74ACT174N	DIP-16	Hex D-type flip-flop	.27	.245
212062	◆	74ACT245N	DIP-20	Quad bidirectional trans. w/ 3 st. I/O	.33	.279

## 74F Series

NEW MARKED IN PINK

\*Web Code: CEN

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	* Order in multiples of 10	
					1	10
286993	◆	74F02N	DIP-14	Quad 2-input NOR gate	* \$3.39	* \$3.25
287005	◆	74F04N	DIP-14	Hex inverter	* .143	* .108
287013	◆	74F08N	DIP-14	Quad 2-input AND gate	* .158	* .118
44652	◆	74F10	DIP-14	Triple 3-input NAND gate	.35	.25
111641	◆	74F11	DIP-14	Triple 3-input AND gate	* .13	* .11
287654	◆	74F14D	SOIC-14	Hex inverter w/ Schmitt trigger	* .172	* .159
245121	◆	74F30N	DIP-14	8-input NAND gate	.43	.36
287638	◆	74F32D	SOIC-14	Quad 2-input OR gate	* .153	* .115
287048	◆	74F32N	DIP-14	Quad 2-input OR gate	* .165	* .144
245139	◆	74F38N	DIP-14	Quad 2-input NAND gate (O.C.)	.27	.234
287620	◆	74F74D	SOIC-14	Dual D-type flip-flop	.25	.217
287056	◆	74F74N	DIP-14	Dual D-type flip-flop	* .199	* .149
287611	◆	74F86D	SOIC-14	Quad 2-input OR gate	.26	.215
287064	◆	74F86N	DIP-14	Quad 2-input OR gate	* .182	* .136
287566	◆	74F138D	SOIC-16	3 to 8 decoder/demux	.27	.142
287072	◆	74F138N	DIP-16	3 to 8 decoder/demux	.25	.22
287081	◆	74F139N	DIP-16	Dual 1-of-4 decoder/demux	* .195	* .146
245163	◆	74F148N	DIP-16	8 to 3 line priority encoder	.28	.252
245171	◆	74F157AN	DIP-16	Quad 2-input multiplexer	* .085	* .077
282731	◆	74F174N	DIP-16	Hex D-type flip-flop w/ master reset	.27	.217
287540	◆	74F244D	SOIC-20	Octal buffer/driver w/ 3-st. output	.42	.367
287144	◆	74F245N	DIP-20	Quad 2-input multiplexer	* .19	* .15
283557	◆	74F257D	SOIC-16	Quad 2:1 data selector/mux. w/ 3-st	.35	.27
287099	◆	74F273N	DIP-20	Octal D-type flip-flop	.44	.374
287494	◆	74F373D	SOIC-20	Octal transparent D-type latch w/ 3-st	.36	.292
287216	◆	74F574N	DIP-20	Octal D-type flip-flop w/ 3-st	.48	.382
287460	◆	74F574D	SOIC-20	Octal D-type flip-flop w/ 3-st	.36	.27

\* 74AHC/AHCT Series Available Online — Enter Web Code XAA

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 161.



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# 74HC/HCT & 74ALS/LS Series

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## 74HC Series

**NEW**  
MARKED BY PHM

★ Web Code: SDJ

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
873338	ON	MC74HC00AN	DIP-14	Quad 2-input NAND gate	\$.28	\$.247
835219	TI	SN74HC00N	DIP-14	Quad 2-input positive NAND gates	.52	.416
906339	NXP	74HC00N	DIP-14	Quad 2-input NAND gate, I-temp	.32	.288
45161	+	74HC00N	DIP-14	Quad 2-input NAND gate	.30	.26
45188	+	74HC02N	DIP-14	Quad 2-input NOR gate	.32	.24
914611	TI	SN74HC03N	DIP-14	Quad 2-input pos. NAND w/ open-drain, I-temp	.44	.356
914646	TI	SN74HC04DR	SOIC-14	Hex inverter, I-temp	.34	.289
835235	TI	SN74HC04N	DIP-14	Hex inverter	.50	.34
906574	NXP	74HC04N	DIP-14	Hex inverter	.42	.305
45209	+	74HC04N	DIP-14	Hex inverter	.32	.21
250982	TI	SN74HC07N	DIP-14	Hex Inverter	.39	.25
45225	+	74HC08N	DIP-14	Quad 2-input AND gate	.38	.325
835340	TI	SN74HC14N	DIP-14	Hex schmitt-trigger inverter	.46	.333
45364	+	74HC14N	DIP-14	Hex schmitt trigger inverter	.27	.228
907411	NXP	74HC14N	DIP-14	Hex inverting schmitt trigger	.37	.321
45583	+	74HC20	DIP-14	Dual 4-input NAND gate	.29	.25
45794	+	74HC32N	DIP-14	Quad 2-input OR gate	.34	.277
46130	+	74HC74N	DIP-14	Dual D-type pos. edge trig. F-F w/ clear & preset	.44	.352
46156	+	74HC75	DIP-16	4-bit bi-stable latch	.45	.35
46181	+	74HC86N	DIP-14	Quad 2-input Exclusive OR gate	*	.198
45305	+	74HC125N	DIP-14	Quad bus buffer w/ 3-state outputs	.41	.356
914849	TI	SN74HC126N	DIP-14	Quad bus buffer gates w/ 3-st., I-temp	.42	.32
45321	+	74HC132N	DIP-14	Quad pos. NAND gate w/ Schmitt trig. input	.38	.30
86182	+	74HC138D	SOIC-16	3-8 decoder/demultiplexer	.25	.19
835315	TI	SN74HC138N	DIP-16	3-to-8 line decoders/demultiplexer	.33	.30
45330	+	74HC138N	DIP-16	3-to-8 decoder/demultiplexer	.38	.30
45401	+	74HC154N	DIP-24	4-to-16 line decoder	.79	.67
45487	+	74HC164N	DIP-14	8-bit parallel out serial shift register	.39	.332
251336	TI	SN74HC165N	DIP-16	8-bit parallel load shift register	.49	.346
845927	NXP	74HC165N	DIP-16	8-bit parallel-in/serial-out shift reg.	.44	.315
45495	+	74HC165N	DIP-16	8-bit parallel load shift register	.32	.28
45532	+	74HC191	DIP-16	Up/down binart counter	.39	.29
45541	+	74HC192	DIP-16	Pre-settable synch. 4-bit up/down counter	1.59	1.44
908220	NXP	74HC244AN	DIP-20	Octal buffer/line driver 3-st	.59	.441
45655	+	74HC244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.45	.38
45671	+	74HC245N	DIP-20	Octal bus trans. w/ 3-state output	.45	.38
45719	+	74HC257	DIP-16	Quad 2-channel tri state multiplexer	*	.17
251475	TI	SN74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. output	.54	.41
45831	+	74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. output	.45	.39
86254	+	74HC374DR	SOIC-20	Tri-state octal D-type flip-flop	*	.15
45858	+	74HC374N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. output	.39	.332
109760	+	74HC540N	DIP-20	Octal buffer/line driver w/ 3-st. output	*	.167
46050	+	74HC541N	DIP-20	Octal buffer/line driver w/ 3-st. output NOR gate	.34	.306
46076	+	74HC573N	DIP-20	Octal transparent D-type latches w/ 3-st. output	.38	.32
46084	+	74HC574N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. out. flow thru	.40	.314
46105	+	74HC595N	DIP-16	8-bit shift reg. w/ 3-st. output register	.62	.44
251643	TI	SN74HC595N	DIP-16	8-bit shift reg. w/ 3-st. output register	.65	.55
46113	+	74HC688N	DIP-20	8-bit identity comparators	.45	.38
45891	+	74HC4017	DIP-16	Decade ctr/div w/ decoded output	.50	.42
272057	+	74HC4049N	DIP-16	Hex inverting buffer	.45	.378
88102	+	74HC4051N	DIP-16	8-channel analog multiplexer	.35	.29
272129	+	74HC4053N	DIP-16	Triple 2-channel analog multiplexer	.46	.369
822303	TI	CD74HC4511E	DIP-16	BCD-to-7 segment latch/decoder/driver	.70	.531

## 74HCT Series

**NEW**  
MARKED BY PHM

★ Web Code: SAG

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
44871	+	74HCT00N	DIP-14	Quad 2-input NAND gate	\$.43	\$.30
44898	+	74HCT04N	DIP-14	Hex inverter	.35	.29
63765	+	74HCT05	DIP-14	Hex inverter (O.C.)	.29	.25
44901	+	74HCT08N	DIP-14	Quad 2-input AND gate	.33	.277
618046	+	74HCT10N	DIP-14	Triple 3-input NAND gate	.38	.323
898480	TI	CD74HCT14E	DIP-14	CMOS logic hex inverting schmitt trig., I-temp	.37	.288

## 74HCT Series (Continued)

**NEW**  
MARKED BY PHM

★ Web Code: SAG

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
44935	+	74HCT14N	DIP-14	Hex schmitt trigger inverter	\$.36	\$.318
88006	+	74HCT20	DIP-14	Dual 4-input NAND gate	*	.15
45137	+	74HCT74N	DIP-14	Dual D-type pos. edge trig F-F w/ clear & preset	.39	.268
45145	+	74HCT86	DIP-14	Quad 2-input EXCLUSIVE-OR gate	*	.198
44927	+	74HCT138N	DIP-16	3-to-8 decoder/demultiplexer	.33	.28
44986	+	74HCT174	DIP-16	Hex D flip-flop w/clear	.25	.19
44994	+	74HCT175	DIP-16	Quad D flip-flop w/clear	*	.15
45022	+	74HCT244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.31	.264
45031	+	74HCT245N	DIP-20	Octal bus trans. w/ 3-state output	.65	.42
913336	NXP	74HCT367N	DIP-16	Hex buffer/line driver, 3-st	.63	.477
45090	+	74HCT573N	DIP-20	Octal transparent D-type latch w/ 3-st. output	.43	.42

## 74ALS Series

Please Note: Manufacturer may vary

★ Web Code: AFE

Part No.	Cross Ref. No.	Pkg.	Description	1	10	100
245294	74ALS00AN	DIP-14	Quad 2-input NAND gate	\$.39	\$.30	\$.23
43959	74ALS02N	DIP-14	Quad 2-input NOR gate	.27	.243	.182
245307	74ALS04BN	DIP-14	Hex inverters	.30	.257	.235
44134	74ALS32N	DIP-14	Quad 2-input OR gate	.39	.35	.29
245892	74ALS74AN	DIP-14	Dual D-pos. edge-trig. flip-flop	.39	.30	.225
310295	74ALS244AM	SOIC-20	Octal buffer/driver w/ 3-st.	.39	.33	.249
44100	74ALS251N	DIP-16	1-of-8 line data selector/mux. w/ 3-st.	.53	.441	.333

## 74LS Series

QUANTITY SAVE

★ Web Code: NBS

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10	100
283725	TI	SN74LS00N	DIP-14	Quad 2-input NAND gate	\$.50	\$.416	\$.312
46252	+	74LS00N	DIP-14	Quad 2-input NAND gate	.41	.349	.24
283741	TI	SN74LS02N	DIP-14	Quad 2-input NOR gate	.50	.415	.311
46287	+	74LS02N	DIP-14	Quad 2-input NOR gate	.45	.41	.34
283792	TI	SN74LS04N	DIP-14	Hex inverter	.48	.408	.306
46316	+	74LS04N	DIP-14	Hex inverter	.41	.26	.23
46341	+	74LS05N	DIP-14	Hex inverter (O.C.)	.42	.353	.235
46359	+	74LS06N	DIP-14	Hex inverter buffer/driver (O.C.)	.74	.62	.50
46367	+	74LS07N	DIP-14	Hex buffer/driver (O.C. hi-volt)	.64	.57	.49
295401	TI	SN74LS08N	DIP-14	Quad 2-input AND gate	.49	.412	.228
46375	+	74LS08N	DIP-14	Quad 2-input AND gate	.37	.307	.23
46391	+	74LS09N	DIP-14	Quad 2-input AND gate (O.C.)	.46	.39	.293
46404	+	74LS10N	DIP-14	Triple 3-input NAND gate	.49	.39	.276
46439	+	74LS11N	DIP-14	Triple 3-input AND gate	.49	.37	.264
295460	TI	SN74LS14N	DIP-14	Hex inverter schmitt trigger	.49	.412	.228
46640	+	74LS14N	DIP-14	Hex inverter schmitt trigger	.40	.34	.255
47095	+	74LS20N	DIP-14	Dual 4-input NAND gate	.45	.29	.24
47108	+	74LS21N	DIP-14	Dual 4-input AND gate	.26	.224	.16
47378	+	74LS27N	DIP-14	Triple 3-input NOR gate	.28	.23	.18
47458	+	74LS30N	DIP-14	8-input NAND gate	.36	.302	.167
295515	TI	SN74LS32N	DIP-14	Quad 2-input OR gate	.45	.386	.289
47466	+	74LS32N	DIP-14	Quad 2-input OR gate	.35	.312	.246
295558	TI	SN74LS37N	DIP-14	Quad 2-input NAND gate buffer	.74	.63	.47
47773	+	74LS42N	DIP-14	BCD-to-decimal decoder/driver	1.09	.88	.62
295582	TI	SN74LS47N	DIP-16	BCD-to-7 seg. decoder/drv. (O.C.)	1.12	.81	.70
47790	+	74LS47N	DIP-16	BCD-to-7 seg. decoder/drv. (O.C.)	.99	.73	.62
47811	+	74LS48N	DIP-16	BCD-to-7 seg. decoder/drv.	4.99	4.24	3.18
47992	+	74LS73N	DIP-14	Dual JK F-F w/ clear, center VCG/GND	1.03	.84	.64
295726	TI	SN74LS74AN	DIP-14	Dual D flip-flop	.45	.37	.27
48004	+	74LS74AN	DIP-14	Dual D flip-flop	.39	.27	.22
48021	+	74LS75N	DIP-16	4-bit bi-stable latch	.86	.73	.66
48039	+	74LS76N	DIP-16	Dual JK flip-flop w/ preset & clear	.99	.89	.79
48063	+	74LS83N	DIP-16	4-bit binary full adder	2.05	1.81	1.64
295742	TI	SN74LS85N	DIP-16	4-bit magnitude comparator	.91	.68	.52
48071	+	74LS85N	DIP-16	4-bit magnitude comparator	.42	.382	.345
295751	TI	SN74LS86N	DIP-14	Quad EXCLUSIVE-OR gate	.45	.386	.287

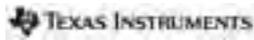
\* 10 pcs. / \*\* 20 pcs. in 74LS series IC cabinet kit, pg 9

Continued on next page

\* NXP = NXP/Philip Semiconductor | ON = ON Semi | TI = Texas Instruments | + Manufacturer Varies

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



## 74LS Series (Continued)

QUANTITY SAVE

\*Web Code: NBS

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10	100
48098	+	74LS86N⊕	DIP-14	Quad EXCLUSIVE-OR gate	\$.38	\$.323	\$.236
295769	TI	SN74LS90N	DIP-14	Decade counter	1.55	1.25	.94
48119	+	74LS90N*	DIP-14	Decade counter	.99	.87	.75
48143	+	74LS92N	DIP-14	Divide-by-12 counter	1.23	1.11	.79
295822	TI	SN74LS93N	DIP-14	4-bit binary counter	1.55	1.25	.94
48151	+	74LS93N*	DIP-14	4-bit binary counter	.95	.85	.75
48178	+	74LS95N	DIP-14	4-bit parallel-access shift reg.	1.75	1.59	1.45
46412	+	74LS107N	DIP-14	Dual JK flip-flop with clear	.88	.84	.62
46421	+	74LS109N	DIP-16	Dual JK pos. edge-trig. flip-flop	.78	.58	.454
46447	+	74LS112N	DIP-16	Dual JK neg. edge-trig. flip-flop	.51	.428	.237
46471	+	74LS122N	DIP-14	Retrig. mono. multivib. comm. CLK	.67	.63	.378
300880	TI	SN74LS123N	DIP-16	Dual mono. multivibrator w/ clear	.71	.54	.405
46480	+	74LS123N*	DIP-16	Dual mono. multivibrator w/ clear	.37	.30	.225
46501	+	74LS125N*	DIP-14	Quad bus buffer neg. enable 3-st.	.36	.31	.233
46527	+	74LS126N	DIP-14	Quad bus buffer 3-st.	.59	.53	.401
46551	+	74LS132N	DIP-14	Quad 2-input NAND Schmitt trig.	.40	.339	.25
46586	+	74LS136N	DIP-14	Quad EXCLUSIVE-OR gate (O.C.)	.75	.63	.378
301233	TI	SN74LS138N⊕	DIP-16	3-to-8 decoder/demultiplexer	.55	.45	.35
46607	+	74LS138N⊕**	DIP-16	3-to-8 decoder/demultiplexer	.52	.423	.322
46623	+	74LS139N*	DIP-16	2-to-4 decoder/demultiplexer	.37	.32	.24
46666	+	74LS145N	DIP-16	BCD-to-decimal decoder/drv. (O.C.)	.73	.55	.423
46682	+	74LS148N	DIP-16	8-to-3 priority encoder	.98	.81	.60
46703	+	74LS151N*	DIP-16	8-input multiplexer	.45	.349	.269
46720	+	74LS153N	DIP-16	Dual 4-to-1 selector/multiplexer	.48	.457	.307
46738	+	74LS154N	DIP-24	4-to-16 line decoder/demux.	5.15	4.59	3.69
46754	+	74LS155N*	DIP-16	Dual 2-to-4 line decoder/demux.	.85	.72	.54
815816	TI	SN74LS156NⓂ	DIP-16	Dual 2-to-4 line decoder/demux.	.70	.59	.441
46771	+	74LS157N*	DIP-16	Quad 2-to-1 line data selector/mux.	.56	.428	.237
46800	+	74LS160N	DIP-16	Decade countr w/ asynch. clear	2.59	2.49	2.39
46818	+	74LS161N	DIP-16	Synch 4-bit counter	.57	.48	.36
46842	+	74LS163N	DIP-16	Fully synch. 4-bit counter	.57	.479	.265
46851	+	74LS164N	DIP-14	8-bit serial shift register	.52	.40	.30
46877	+	74LS165N	DIP-16	8-bit serial shift register, parallel load	.56	.428	.325
46885	+	74LS166N	DIP-16	8-bit parallel shift register	.66	.56	.42
46906	+	74LS169N	DIP-16	Synch. binary up/down counter	.61	.52	.39
46922	+	74LS173N	DIP-16	4-bit D-type reg. 3-state	.90	.78	.391
46931	+	74LS174N*	DIP-16	Hex D flip-flop w/ clear	.79	.58	.435
46957	+	74LS175N*	DIP-16	Quad D flip-flop w/ clear	.51	.44	.33
46973	+	74LS181N	DIP-24	Arithmetic logic unit/function gen.	2.59	2.16	1.47
46990	+	74LS190N	DIP-16	Synchronous up/down counter	2.95	2.65	2.55
47001	+	74LS191N	DIP-16	Up/down binary counter	.67	.55	.45
47010	+	74LS192N	DIP-16	Decade up/down countr w/ clear	3.49	3.05	2.85
301831	TI	SN74LS193N	DIP-16	Binary up/down countr w/ clear	.79	.68	.51
47036	+	74LS193N*	DIP-16	Binary up/down countr w/ clear	.61	.57	.34
301858	TI	SN74LS194N⊕	DIP-16	4-bit bi-directional shift register	1.09	1.00	.75
47052	+	74LS194N⊕	DIP-16	4-bit bi-directional shift register	1.25	1.04	.78
47124	+	74LS221N	DIP-16	Dual monostable multivibrator	.77	.64	.48
47141	+	74LS240N*	DIP-20	Octal invert. line driver 3-st.	.70	.60	.45
47167	+	74LS241N	DIP-20	Octal bus/line driver 3-st.	.58	.48	.36
815921	TI	SN74LS243NⓂ	DIP-14	Quad bus transceivers	3.49	3.05	2.21
308312	TI	SN74LS244NⓂ	DIP-20	Octal driver 3-st.	.59	.53	.39
47183	+	74LS244N*	DIP-20	Octal driver 3-st.	.53	.444	.333
308321	TI	SN74LS245N⊕	DIP-20	Octal bus transceiver 3-st.	.85	.65	.358
47212	+	74LS245N⊕	DIP-20	Octal bus transceiver 3-st.	.64	.48	.36
47247	+	74LS247N⊕	DIP-16	BCD to 7-seg. decoder/drv. (O.C.)	1.00	.85	.64
47327	+	74LS259N	DIP-16	8-bit addressable latch	.46	.39	.293
47360	+	74LS266N	DIP-14	Quad EXCLUSIVE-NOR gate (O.C.)	.69	.52	.395
47386	+	74LS273N*	DIP-20	Octal D-type flip-flop with clear	.66	.56	.414

\*10 pcs./ \*\*20 pcs. in 74LS series IC cabinet kit, above right

▲ Product requires 1-2 additional days to ship. Request *'ship partial'* if you want other items to ship sooner (note separate shipping charges will apply). Minimum order quantity & prices are subject to change.

\* TI = Texas Instruments    ◆ Manufacturer Varies

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

RoHS compliant product    ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 161.



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## 74LS Series (Continued)

QUANTITY SAVE

\*Web Code: NBS

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10	100
47407	+	74LS279N	DIP-16	Quad set-rest latches	\$.50	\$.425	\$.319
47423	+	74LS283N	DIP-16	4-bit binary full add w/ fast carry	.53	.44	.33
47562	+	74LS367N	DIP-16	Hex buffer 3-st.	.42	.357	.268
308460	TI	SN74LS373N	DIP-20	Octal D flip-flop 3-st.	.78	.66	.495
47600	+	74LS373N⊕	DIP-20	Octal D flip-flop 3-st.	.64	.49	.39
308478	TI	SN74LS374N⊕	DIP-20	Octal D flip-flop edge-trig. 3-st.	.78	.66	.495
47634	+	74LS374N*	DIP-20	Octal D flip-flop edge-trig. 3-st.	.54	.465	.349
1944311	+	74LS375P	DIP-16	4-bit bistable latches	.75	.59	.39
47669	+	74LS377N	DIP-20	Octal D register common enable	.50	.43	.319
47722	+	74LS390N	DIP-16	Dual 4-bit decade counter	.80	.66	.495
47731	+	74LS393N	DIP-14	Dual 4-bit binary counter	.69	.59	.44
47861	+	74LS540N	DIP-20	Octal invert. buffer/line driver 3-st.	.99	.84	.63
47870	+	74LS541N	DIP-20	Octal buffer/line driver 3-st.	.67	.63	.47
64418	+	74LS573N	DIP-20	Octal D-type flip-flop latch 3-st.	2.05	1.85	1.55
64426	+	74LS574N	DIP-20	Octal D-type flip-flop edge-trig. 3-st.	2.15	1.89	1.69
103974	+	74LS595N	DIP-16	8-bit serial-to-parallel shift reg. 3-st.	5.55	4.49	3.79
47950	+	74LS645N	DIP-20	Octal bus transceiver 3-st. (O.C.)	1.30	1.11	.83
47984	+	74LS688N	DIP-20	8-bit magnitude comparator	1.55	1.38	1.00

\*10 pcs. in 74LS series IC cabinet kit, below

## 74LS Series IC Kit

SAVE \$71

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 152 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS24, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374  
20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138



Part No.	Description	Wt. (lbs.)	1	10
84961	420 pcs. 74LS IC kit	6.7	\$135.55	\$123.95
130391	Refill for 84961 (420 pcs.)	2.0	116.99	109.99

\*ECL Logic Series Available Online — Enter Web Code RAK

\*Tiny Logic Series Available Online — Enter Web Code UES

## ON Semiconductor® MC14000 Series

\*Web Code: XDH

Part No.	Mfr.	Part No.	Pkg.	Description	1	10	100
868141	MC14013BCP	PDIP-14	Dual D-type flip-flop	\$.33	\$.278	\$.263	
792474	MC14511BCPGⓂ	PDIP-16	BCD-to-7 seg latch/decoder/driver	.49	.406	.352	
947982	MC14553BCPGⓂ	DIP-16	3-digit BCD decoder	1.69	1.36	1.18	

## 4000 Series

QUANTITY SAVE

\*Web Code: WAA

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10	100
12562	+	CD4001**	DIP-14	Quad 2-input NOR gates	\$.39	\$.30	\$.225
12597	+	CD4007⊕	DIP-14	Dual comp. pair with inverter	.42	.336	.252
12634	+	CD4011⊕**	DIP-14	Quad 2-input NAND gates	.35	.288	.228
893443	TI	CD4013BEⓂ	DIP-14	CMOS dual D-type flip-flop	.49	.396	.297
12677	+	CD4013**	DIP-14	Dual D flip-flops with set/reset	.41	.34	.255
12722	+	CD4016*	DIP-14	Quad bilateral switches	.36	.299	.157
12749	+	CD4017*	DIP-16	Decade counter/divider	.39	.35	.32
893611	TI	CD4017BEⓂ	DIP-16	CMOS counter/divider	.47	.356	.267
12773	+	CD4018	DIP-16	Presetable divide-by-N counter	.29	.264	.198
12802	+	CD4020*	DIP-16	14-stage binary/ripple counter	.49	.39	.29
12829	+	CD4021	DIP-16	8-stage static shift register	.29	.25	.188
12845	+	CD4023*	DIP-14	Triple 3-input NAND gates	.43	.36	.267
12853	+	CD4024⊕*	DIP-14	7-stage binary counter	.27	.245	.22

\*10 pcs./ \*\*20 pcs. in 4000 series IC cabinet kit, pg 10

Continued on next page

# 4000 & 7400 Series

3 LEVELS OF SAVINGS  
 FRANCHISE SOURCED | BRAND NAME | SUPPLIERS VARY | FACTORY OVERRUN

## 4000 Series (Continued)

QUANTITY SAVE

\*Web Code: WAA

\* Order in multiples of 10

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10	100
893945	TI	CD4025BE	DIP-14	CMOS triple 3-input NOR gate	\$.26	\$.201	\$.153
353560	+	CD4026	DIP-16	Decade counter/divider	.62	.46	.345
12888	+	CD4027*	DIP-16	Dual JK master-slave flip-flops	.40	.34	.27
12909	+	CD4028	DIP-16	BCD-to-decimal decoder	.42	.279	.209
12925	+	CD4029	DIP-16	Presetable up/down counter	.41	.323	.242
12950	+	CD4040*	DIP-16	12-stage binary/ripple counter	.37	.30	.26
197333	+	CD4040M	SOIC-16	12-stage binary/ripple counter	.95	.85	.75
12992	+	CD4043	DIP-16	Quad NOR R-S latches tri-state	.49	.378	.283
13004	+	CD4044	DIP-16	Quad 3-state NAND R-S latches	.38	.318	.238
894331	TI	CD4047BE	DIP-14	CMOS LP monostable/stable multivibr	.*	.442	.354
13055	+	CD4049*	DIP-16	Hex/buffer/converters (inverting)	.35	.288	.25
894391	TI	CD4051BE	DIP-16	Single 8-ch mux. w/ 3-binary inputs	.46	.39	.28
13098	+	CD4051	DIP-16	Single 8-channel mux./demux.	.45	.383	.338
13119	+	CD4052	DIP-16	Diff. 4-channel mux./demux.	.41	.34	.255
13127	+	CD4053	DIP-16	Triple 2-channel mux./demux.	.45	.369	.277
818259	TI	CD4059AE	DIP-24	CMOS programmable divide by N cntr	2.25	1.94	1.43
13151	+	CD4060	DIP-16	14-stage ripple-carry binary	.41	.33	.248
13186	+	CD4066	DIP-14	Quad bilateral switches	.39	.30	.23
13215	+	CD4067	DIP-24	16-channel analog mux./demux.	1.37	1.14	.91
13231	+	CD4069	DIP-14	Hex inverters (74C04)	.38	.317	.238
13258	+	CD4070*	DIP-14	Quad exclusive-OR gates (74C86)	.38	.302	.227
13274	+	CD4071*	DIP-14	Quad 2-input OR gates	.43	.366	.285
676086	+	CD4073	DIP-14	Triple 3-input AND gates	.41	.323	.185
676094	+	CD4075	DIP-14	Triple 3-input OR gates	1.29	1.15	1.05
676115	+	CD4078	DIP-14	Triple 3-input OR gates	1.29	1.15	1.05
13354	+	CD4081	DIP-14	Quad 2-input AND gates	.34	.289	.255
676123	+	CD4082	DIP-14	Dual 4-input AND gates	.42	.357	.215
870807	FSC	CD4093BCN	DIP-14	Quad 2-input NAND schmitt trig.	.39	.333	.25
818873	TI	CD4093BE	DIP-14	Quad 2-input NAND schmitt trig.	.49	.328	.294
13400	+	CD4093*	DIP-14	Quad 2-input NAND schmitt trig.	.35	.298	.228
13426	+	CD4094	DIP-16	8-stage shift-and-store bus reg.	.28	.26	.23
895254	TI	CD4503BE	DIP-16	CMOS hex buffer, 3-st, non-inverting	.47	.353	.265
13485	+	CD4510	DIP-16	BCD up/down counter	.39	.30	.225
895377	TI	CD4511BE	DIP-16	CMOS BCD-to-7 seg. latch decoder/drv.	.51	.386	.325
13493	+	CD4511	DIP-16	BCD-to-7 seg. latch/decoder/driver	.62	.49	.37
13522	+	CD4514	DIP-24	4-bit latch/4-16 line decoder	1.12	.94	.75
13549	+	CD4516	DIP-16	Binary up/down counter	.59	.441	.331
895481	TI	CD4518BE	DIP-16	CMOS dual up counter, hi volt (20V)	.26	.247	.226
13565	+	CD4518	DIP-16	Dual BCD up counters	.44	.33	.24
13581	+	CD4520	DIP-16	Dual binary up counters	.39	.30	.25
13602	+	CD4526	DIP-16	Divide-by-N counter (binary)	.61	.528	.40
13611	+	CD4528	DIP-16	Dual monostable multivibrators	1.14	.98	.73
676431	+	CD4532	DIP-16	8-bit priority encoder	.39	.30	.225
13653	+	CD4538*	DIP-16	Dual precision monostable multivib.	.45	.378	.287
13688	+	CD4541	DIP-14	Oscillator/programmable timer	.43	.343	.261
13696	+	CD4543*	DIP-16	BCD to 7-segment decoder (LCD)	.43	.356	.267
13709	+	CD4553	DIP-16	3-digit BCD counter	2.95	2.51	2.21
13768	+	CD4584*	DIP-14	Hex schmitt triggers	.39	.35	.29
785071	FSC	CD40106BCN	DIP-14	Hex schmitt trigger	.47	.356	.267
44257	+	CD40106	DIP-14	Hex inverters Schmitt trig. (74C14)	.49	.465	.42
893241	TI	CD40107BE	DIP-8	CMOS dual 2-input NAND buffer/driver	.39	.311	.24

\*10 pcs. in 4000 series IC cabinet kit, below

## 7400 Series

QUANTITY SAVE

\*Web Code: XAG

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10	100
910901	TI	SN7400N	DIP-14	Quad 2-input pos. NAND gate	\$1.04	\$.87	\$.69
48979	+	7400N	DIP-14	Quad 2-input NAND gate	.97	.82	.66
49007	+	7401N	DIP-14	Quad 2-input NAND gate (O.C.)	.77	.73	.71
49015	+	7402N	DIP-14	Quad 2-input NOR gate	1.09	.99	.89
49040	+	7404N	DIP-14	Hex inverters	1.09	.89	.80
49074	+	7405N	DIP-14	Hex inverters (O.C.)	.69	.54	.405
910987	TI	SN7406N	DIP-14	Hex buffer/driver (O.C. hi-volt)	.85	.79	.63
49091	+	7406N	DIP-14	Hex inverter buffer/driver (O.C.)	.68	.63	.61
49120	+	7407N	DIP-14	Hex buffer/driver (O.C.)	.59	.52	.39
49146	+	7408N	DIP-14	Quad 2-input AND gate	1.49	1.35	1.25
49189	+	7410N	DIP-14	Triple 3-input NAND gate	.77	.70	.50
49402	+	7413N	DIP-14	Dual 4-input NAND gate schmitt trig.	1.25	1.12	1.01
49437	+	7414N	DIP-14	Hex inverters schmitt trigger	.69	.59	.56
49630	+	7416N	DIP-14	Hex inverter buffer/drivers (O.C.)	1.20	1.01	.60
49728	+	7417N	DIP-14	Hex buffer/drivers (O.C. hi-volt)	1.15	.97	.58
50008	+	7420N	DIP-14	Dual 4-input NAND gate	.99	.84	.63
50227	+	7430N	DIP-14	8-input NAND gate	.62	.58	.435
50235	+	7432N	DIP-14	Quad 2-input OR gate	.98	.84	.66
50374	+	7442N	DIP-16	BCD-to-decimal decoder	1.69	1.42	1.07
50403	+	7445N	DIP-16	BCD-to-decimal decoder/driver	1.55	1.23	.92
50420	+	7447N	DIP-16	BCD-to-7 seg. decoder/drv. (L.O.)	1.49	1.29	.99
50526	+	7472N	DIP-14	JK master/slave flip-flop, AND gate	.33	.293	.263
50534	+	7473N	DIP-14	Dual JK flip-flops with clear	1.95	1.75	1.59
50551	+	7474N	DIP-14	Dual D flip-flops	.79	.68	.51
50577	+	7475N	DIP-16	4-bit bi-stable latch	2.95	2.55	2.25
50593	+	7476N	DIP-16	Dual JK flip-flop w/ preset & clear	2.95	2.65	2.39
50631	+	7483N	DIP-16	4-bit binary full adder	2.95	2.51	2.21
50657	+	7485N	DIP-16	4-bit magnitude comparator	2.15	1.95	1.75
50665	+	7486N	DIP-14	Quad exclusive-OR gate	1.75	1.59	1.45
50681	+	7489N	DIP-16	64-bit RAM P 50ns	4.05	3.68	3.44
50690	+	7490N	DIP-14	Decade counter	2.95	2.65	2.39
50745	+	7493N	DIP-14	4-bit binary counter	1.75	1.59	1.45
49234	+	74107N	DIP-14	Dual JK flip-flop with clear	.63	.57	.49
49322	+	74121N	DIP-14	Monostable multivibrator	1.31	1.21	1.05
49357	+	74123N	DIP-16	Dual retriggerable mono multivib.	1.75	1.53	1.15
49373	+	74125N	DIP-14	Quad bus buffer tri-state	1.39	1.32	1.25
49496	+	74148N	DIP-16	8 to 3 line octal priority encoder	1.24	1.08	.81
49509	+	74150N	DIP-24	16 to 1 line multiplexer	2.15	2.01	1.68
49525	+	74151N	DIP-16	8-input multiplexer	.75	.63	.472
49550	+	74153N	DIP-16	Dual 4/1 data selector/multiplexer	1.31	1.12	.85
49568	+	74154N	DIP-24	4 to 16 line decoder/demultiplexer	2.69	2.32	1.74
49605	+	74157N	DIP-16	Quad 2/1 data selector	.99	.84	.63
49648	+	74160N	DIP-16	Decade counter with asynch clear	.57	.52	.46
49664	+	74161N	DIP-16	Synch. 4-bit counter w/ direct clear	.83	.77	.69
49672	+	74163N	DIP-16	Fully synchronous 4-bit counter	.79	.69	.59
49681	+	74164N	DIP-14	8-bit serial shift register	.94	.80	.60
49795	+	74175N	DIP-16	Quad D-type flip-flop with clear	1.35	1.29	1.04
49832	+	74180N	DIP-14	9-bit odd/even parity generatr/checker	2.89	2.46	1.84
49883	+	74189N	DIP-16	64-bit RAM tri-state	3.19	2.75	2.17
49904	+	74191N	DIP-16	Binary up/down counter	2.15	1.82	1.37
49912	+	74192N	DIP-16	Decade up/down counter w/ clear	4.25	3.85	3.49
49939	+	74193N	DIP-16	Binary up/down counter w/ clear	2.79	2.65	2.52
49955	+	74194N	DIP-16	4-bit bi-directional shift register	1.75	1.49	1.12

\*10 pcs. / \*\* 20 pcs. in 7400 series IC cabinet kit, below

### 4000 Series CMOS IC Kit

SAVE \$13



Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 152 and 30 adhesive labels for drawers to identify parts in kit

10 each:	CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584
20 each:	CD4001, CD4011, CD4013, CD4049, CD4066

Part No.	Description	Wt. (lbs.)	1	10
84970	300 pcs. 4000 series CMOS IC kit	6.1	\$95.99	\$90.99

Product requires 1-2 additional days to ship. Request 'ship partial' if you want other items to ship sooner (note separate shipping charges will apply). Minimum order quantity & prices are subject to change.

\* FSC = Fairchild Semiconductor | TI = Texas Instruments | + Manufacturer Varies

For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com)/More and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



## 74C Series

Part No.	Mfr.	Cross Ref.	Pkg.	Description	QUANTITY SAVE			* Web Code: RAG
					1	10	100	
44222	+	74C00N	DIP-14	Quad 2-input NAND gate	\$1.15	\$ .91	\$ .68	
44257	+	74C14N	DIP-14	Hex inverter Schmitt trig. (CD40106)	.49	.465	.42	
44441	+	74C74N	DIP-14	Dual D-type flip-flop	2.25	1.80	1.35	
44361	+	74C221N	DIP-16	Dual monostable multivibrator	3.65	2.95	2.30	
871869	FSC	MM74C922N	DIP-18	16-key encoder	6.15	5.74	5.38	
44564	+	74C922N	DIP-18	16-key keyboard encoder	6.05	5.55	5.15	
44572	+	74C923N	DIP-20	20-key keyboard encoder	8.75	7.44	5.58	
44599	+	74C926N	DIP-18	4-digit CTR w/ mux. D-seg. driver	12.95	10.94	8.29	

## 74S Series

Part No.	Cross Ref.	Pkg.	Description	QUANTITY SAVE			* Web Code: NCK
				1	10	100	
48266	74S02	DIP-14	Quad 2-input NOR gate	\$ .59	\$ .49	\$ .45	
48303	74S08	DIP-14	Quad 2-input AND gate	.59	.49	.45	
48573	74S20	DIP-14	Dual 4-input NAND gate	.69	.59	.49	
48750	74S32	DIP-14	Quad 2-input OR gate	.59	.49	.45	
48557	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03)	4.75	4.61	3.45	
48696	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10)	12.95	11.65	9.95	
48717	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N)	8.95	8.05	7.25	
48805	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N)	3.15	2.56	2.22	
52513	74S428N	DIP-28	System contr./bus driver (8228)	3.69	3.19	2.36	
48864	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N)	12.95	11.65	10.49	

## Dallas Semiconductor

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100	* Web Code: ODH
866584	DS275	DIP-8	Line powered RS-232 transceiver chip	\$5.35	\$4.22	\$3.80	
114198	DS1210	DIP-8	NV controller chip	4.55	2.66	2.19	
114219	DS1213C	DIP-28	Smart socket	22.45	19.08	14.31	
133410	DS1216C	DIP-28	Smart watch/RAM	30.55	25.14	18.59	
780220	DS1232+R	DIP-8	Micromonitor chip	1.85	1.38	1.31	
114331	DS1232LP	DIP-8	Micromonitor chip	1.85	1.34	1.02	
697231	DS1243Y-120+R	PDIP-28	64k NV SRAM w/ phantom clock	41.59	31.85	28.79	
133444	DS1286*	DIP-28	Watchdog timekeeper	22.15	16.90	12.67	
76646	DS1287*	DIP-24	Real time clock chip	8.69	7.38	6.64	
176778	DS1302	DIP-8	Trickle charge time keeping	3.19	2.44	1.48	
780481	DS1302+R	PDIP-8	Trickle charge time keeping chip, C-temp	4.55	3.78	3.61	
1194679	DS1307R	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp	3.59	2.79	2.43	
114382	DS1620	DIP-8	Digital thermometer and thermostat	6.89	5.20	3.15	
865936	DS18B20	TO-92	Prog. resolution 1-wire digital thermometer	4.45	3.89	3.31	
133452	DS12887*	DIP-24	Real time clock chip	6.95	6.25	4.95	
1194556	DS12887+R	MOD-24	Real time clock, C-temp	7.09	5.63	5.28	

\* Pull = Extra Savings

## MPU Supervisory

Part No.	Cross Ref.	Pkg.	Description	1	10	100	* Web Code: PAN
106219	MAX690CPA	DIP-8	Watchdog timer, 4.4V	\$3.95	\$3.55	\$3.20	
106227	MAX691CPE	DIP-16	Watchdog timer, 4.65V	6.35	4.28	3.21	

\* 65LVDS Series Available Online — Enter Web Code UEU

## Interface Series

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100	* Web Code: RBU
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	\$9.35	\$6.45		
832448	NSC	DS26LS32ACM/NOPB	SOIC-16	Quad differential line receiver	1.59	1.15		
241824	+	MC14489BP	DIP-20	5V, 7-segment LED display driver	3.89	3.26		
277940	+	SN75179BP	DIP-8	5V, diff line driver/receiver	.90	.83		
51027	+	SN75451AN	DIP-8	7V, dual peripheral AND driver	.90	.81		
277974	+	SN75183N	DIP-14	5V, dual diff line driver	2.05	1.79		
51131	+	SN75492P	DIP-14	5V, HEX digit driver	4.95	4.45		

Product requires 1-2 additional days to ship. Request 'ship partial' if you want other items to ship sooner (note separate shipping charges will apply). Minimum order quantity & prices are subject to change.

\* FSC = Fairchild Semi | INS = Intersil | MAX = Maxim Semi | NSC = National Semi | NXP = NXP/Philip Semi | TI = Texas Instruments | + Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



## RS-232 Drivers/Receivers

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100	* Web Code: EAV
142535	+	MAX202CPE	DIP-16	5V, 120kpbs, w/ 0.1µF ext. caps	\$2.65	\$2.10		
244232	+	MAX202CSE	SOIC-16	5V, 120kpbs, w/ 0.1µF ext. caps	1.65	1.38		
808000	MAX	MAX202CSE+R	SOIC-16	+5V dual RS-232 trans. w/ 0.1µF ext. cap	2.95	1.81		
244241	+	MAX202EPE	DIP-16	5V, 120kpbs, w/ 0.1µF ext. caps	5.79	5.08		
875448	INS	HIN232CP	DIP-16	5V hi spd RS-232 transmitter/receiver	.79	.67		
808827	MAX	MAX232ACSE+R	SOIC-16	+5V pwrd multi-ch drv/recv, C-temp	4.75	3.72		
318959	MAX	MAX232CPE	DIP-16	5V, 200kpbs, multichannel	2.89	1.76		
24811	+	MAX232CPE*	DIP-16	5V, 200kpbs, multichannel	2.75	2.25		
106147	+	MAX232CWE	SOIC-16	5V, 120kpbs, multichannel	2.75	2.16		
256401	+	MAX232DR	SOIC-16	5V, 120kpbs, dual driver/receiver	.93	.80		
882293	MAX	MAX232ECPE	DIP-16	+15kV ESD-protected, +5V RS-232 trans.	4.15	3.08		
106155	+	MAX232EPE	DIP-16	5V, 120kpbs, multichannel	3.95	3.15		
903277	TI	MAX232IN	DIP-16	Dual EIA-232 driver/receiver, I-temp	.79	.73		
698576	TI	MAX232N	DIP-16	Dual EIA-232 driver/receiver, C-temp	.75	.64		
106163	+	MAX233CPP	DIP-20	5V, 120kpbs, multichannel	6.19	4.99		
106171	+	MAX235CPG	DIP-24	5V, 120kpbs, multichannel	14.05	11.15		
106180	+	MAX238CNG	DIP-24	5V, 120kpbs, multichannel	6.99	6.09		
828043	TI	MC1488N	DIP-14	Quad line driver	.54	.431		
23157	+	DS1488N*	DIP-14	15V, quad line driver	.40	.32		
16379	+	DS14C89N	DIP-14	5V, quad line receiver	1.19	1.10		
698613	TI	MAX3232CD	SOIC-16	3-5.5V multich RS-232 line drv/recv w/ ±15kV ESD	1.49	1.27		
276867	+	MAX3232CSE	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected	3.35	2.02		
235301	+	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/receiver	2.55	1.96		
23181	+	SN75189N*	DIP-14	5V, quad line receiver	.29	.221		
917273	NXP	MC145406N	DIP-16	EIA-232-D/V.28 drv/recv, C-temp	.80	.68		
25099	+	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/receiver	1.95	1.75		

\* 10 pcs. in Linear series IC cabinet kit, pg 15

## RS-422/423/485 Drivers/Receivers

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100	* Web Code: NBT
299807	+	LTC485CN8	DIP-8	RS-485 LP transceiver, 5V	\$1.33	\$1.17		
244195	+	MAX1487CP	DIP-8	RS-485/422 LP transceiver, 12V	2.75	1.61		
39571	+	26LS30	DIP-16	RS-422/423 line driver, 5V	2.39	2.05		
144039	NSC	DS3695N	DIP-8	Multipoint RS-422/423 trans, 5V	.95	.85		
50956	+	SN75175N	DIP-16	RS-422/423 quad diff. line receiver, 5V	.96	.74		
758364	TI	SN75176AP	DIP-8	RS-422 Differential bus transceiver	.78	.57		
891149	NSC	DS75176BN	DIP-8	Multipoint RS-485/422 transceiver	1.69	1.23		
50964	+	SN75176BN	DIP-8	RS-422 diff. line bus transceiver, 5V	.65	.55		
833109	NSC	DS75176BN/NOPB	DIP-8	Multipoint RS-485/422 transceiver	1.49	1.08		

\* IEEE-1394 Available Online — Enter Web Code KEN

\* Motion Control Available Online — Enter Web Code DEU

## Motor/Display Drivers

Part No.	Mfr.	Part No.	Pkg.	Description	1	10	100	* Web Code: DAD
25216	MC	3479P	DIP-16	7.2-16.5V, stepper motor driver	\$3.79	\$3.22	\$2.55	
24230	LM	3914N	DIP-18	25V, dot/bar display driver	2.39	2.05	1.94	
300003	LM	3914N-1	DIP-18	25V, dot/bar display driver	1.95	1.85	1.57	
901010	LM	3914N-1/NOPB	DIP-18	25V, dot/bar display driver	1.55	1.40	1.31	
246625	LM	3914V	PLCC-20	25V, dot/bar display driver	3.25	2.59	1.81	
24256	LM	3915N	DIP-18	25V, dot/bar display driver	2.65	1.94	1.43	
901061	LM	3915N-1	DIP-18	3dB/step, 30db range dot/bar display driver	2.79	2.09	1.55	
24272	LM	3916N	DIP-18	3-25V, dot/bar display driver	2.39	1.99	1.82	
901108	LM	3916N-1	DIP-18	25V, dot/bar display driver	1.69	1.51	1.35	

\* 74CBLV Series Available Online — Enter Web Code OAK

\* 74AS Series Available Online — Enter Web Code SAK

## Digital Interface QUANTITY SAVE \*Web Code: WBB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	50
171951	EDE702R	DIP-18	Serial LCD interface	\$8.95	\$7.95	\$6.95
321710	EDE707R	DIP-28	Octal 7-segment LED display decoder	8.99	7.64	5.73
171969	EDE1144R	DIP-18	Keypad encoder	7.95	6.95	5.95
141532	EDE1200R	DIP-18	Unipolar stepper motor controller	8.95	7.95	6.95
157526	EDE1204R	DIP-18	Bipolar stepper motor controller	7.55	6.35	5.35
321736	EDE2008R	DIP-18	Pushbutton debouncer w/ 8-independent chan	5.99	5.09	3.82
321761	EDE2208/P	DIP-18	8-pushbutton momentary to toggle	5.95	5.06	4.55

## 5000 Series & Clock Chips QUANTITY SAVE \*Web Code: RAE

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	50
32803	+	TCM5089N	DIP-16	Touch tone generator	\$5.75	\$5.25	\$4.75
26171	+	MM5450N	DIP-40	LED display driver	3.69	3.16	2.37
27422	+	LM555CN*	DIP-8	Timer	.29	.23	.20
126797	+	LMC555CN*	DIP-8	CMOS timer	.66	.61	.458
24328	+	LM556N*	DIP-14	Dual timer	.82	.60	.45
25101	+	MC146818*	DIP-24	Real time clock with RAM	10.45	9.45	7.95
10567	AMD	AM9513APC*	DIP-40	Real time clock	39.95	35.95	31.85

\* 10 pcs./\*\* 20 pcs. in Linear series IC cabinet kit, pg 15    \* Pull = Extra Savings

\*Delay Lines Available Online — Enter Web Code EEU

\*Quick Switches Available Online — Enter Web Code FAH

\*EconoResets Available Online — Enter Web Code YFE

## UARTS QUANTITY SAVE \*Web Code: MAG

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
43158	+	6402*	DIP-40	5V CMOS	\$7.49	\$6.42	\$5.99
27570	+	NS16C450N*	DIP-40	Asynch. comm. element, 5V	2.95	2.59	1.95
27596	+	NS16550AN*	DIP-40	Asynch. comm. element, 5V	6.75	5.10	3.85
288809	+	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	2.79	2.27	1.79

\* Pull = Extra Savings

\*MUX/DEMUXs Available Online — Enter Web Code RAB

## Encoders/Decoders \*Web Code: VAR

Part No.	Mfr.	Mfr. Part No.	Pkg.	Description	1	10	100
123730	HOL	HT12E	DIP-18	Encoder, 2,4-12V	\$1.69	\$1.49	\$1.29
123748	HOL	HT12D	DIP-18	Decoder, 2,4-12V	1.69	1.49	1.29
296711	MOT	MC145027P	DIP-16	Decoder, 4,5-18V	2.95	2.65	2.40

## Stepper Motor Drivers/Controllers \*Web Code: GDP

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
924545	L293DDR	SOIC-20	Push pull 4-ch driver w/ diodes	\$15.09	\$13.60	\$9.95
288067	L297/1	DIP-20	Stepper motor controller, 5V	5.19	4.99	4.46
245403	L298N	MW-15	Dual full-bridge driver, 46V	3.05	2.65	2.45
288091	L6202	DIP-18	DMOS full bridge driver, 48V	5.79	5.24	4.68
288104	L6203	MW-11	DMOS full bridge driver, 48V	9.99	9.32	6.95

## KAE Servo Controller \*Web Code: YBC

### PIC-SERVO SC Servo Motion Control I.C.

Controller operates from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Mfr. Part No.	Package	1	10	25
323934	KAE-TOV10-DP	DIP-28, 0.3"	\$29.95	\$28.95	\$26.95

♣ Product requires 1-2 additional days to ship. Request 'ship partial' if you want other items to ship sooner (note separate shipping charges will apply). Minimum order quantity & prices are subject to change.

\* ADI = Analog Devices | AMD = Advanced Micro | ANA = Anachip | HOL = Holtek | INS = Intersil | MAX = Maxim | MOT = Motorola | NSC = National | SAM = Samsung | TI = Texas Instruments | + Mfr. Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com)/More and Enter Web Code Listed Above

♣ RoHS compliant product    ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 161.

## A/D & D/A Converters QUANTITY SAVE \*Web Code: QAG

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
277131	MAX	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50Sps, 2-ch	\$13.15	\$10.43	\$8.70
10145	+	ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	4.29	3.65	2.74
10153	+	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	2.09	1.84	1.46
828342	NSC	ADC0804LCN/NOPB	DIP-20	A/D, 8-bit $\mu$ P compatible ( $\pm 1LSB$ )	2.89	2.27	1.66
10170	+	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	4.39	3.99	3.09
10188	+	ADC0809CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	3.85	3.08	2.31
10225	+	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5 $\mu$ s	3.19	2.41	2.16
831066	NSC	ADC0820CCN/NOPB	DIP-20	A/D, 8-bit hi-spd $\mu$ P, w/ track/hold	3.25	2.89	2.17
116100	+	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32 $\mu$ s	1.99	1.66	1.25
831171	NSC	ADC0831CCN/NOPB	DIP-8	A/D, 8-bit, 5V, 32 $\mu$ s	2.19	1.58	1.40
1252488	NSC	ADC0838CCN/NOPB	DIP-20	A/D, 8-bit serial, 5V, 32 $\mu$ s	2.65	2.05	1.55
43748	+	7106CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 9V	2.59	2.21	1.65
43756	+	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, $\pm 5V$	2.95	2.40	2.05
875683	INS	ICL7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 6V	3.29	3.06	2.87
290263	+	ICL7135CPI	DIP-28	A/D, 4 1/2-digit BCD output, 5V	5.55	4.53	3.40
287363	ADI	AD7714AN	DIP-24	A/D, 24-bit, 5V, 1-2.5MHz, 6-ch	19.75	18.95	18.65
1795108	ADI	AD9240ASZ	MOFP-44	A/D, 14-bit, flash method, parallel	36.49	32.56	30.93
1944581	SAM	KDA0408	DIP-42	D/A, 8-bit, 5V, 60MSPs, triple	5.55	4.53	3.40
115158	+	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1.5-3 $\mu$ s, 1-ch	13.69	10.88	9.05
14904	NSC	DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.59	1.20	.89
14947	NSC	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.65	1.26	.66
128186	NSC	DAC0832LCN	DIP-20	D/A, 8-bit, 5-15V, 1 $\mu$ s	3.95	3.59	3.25
296690	+	AD7226KN	DIP-20	D/A, 8-bit, 2-12.5V, 4 $\mu$ s, 4-ch	18.19	17.17	15.95
290052	TI	TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns	3.25	2.59	1.92

\*Analog Switches Available Online — Enter Web Code VBN

## Voltage Reference

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1727746	LT1021DCN8-5	DIP-8	Precision reference	\$4.95	\$4.75	\$4.58

\*More Voltage References Available Online — Enter Web Code TBD

\*DC-DC Controllers Available Online — Enter Web Code VFL

## Simple Switcher Voltage Regulators \*Web Code: VAX

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10
156566	+	LM2574N-5.0	DIP-8	Step-down 5-voltage regulator	\$1.55	\$1.39
279638	NSC	LM2575HVT-5.0	TO-220/5	Switcher 1A step-down V-reg, hi Vin range	3.95	3.74
836001	NSC	LM2575S-5/NOPB	TO-263/5	Simple switcher 1A step-down volt. reg.	1.79	1.37
894534	NSC	LM2575T-5/NOPB	TO-220/5	Simple switcher 1A step-down volt. reg.	1.75	1.28
894500	NSC	LM2575T-5.0/LB03	TO-220/5	1A, 5V step-down voltage regulator	2.65	2.12
836078	NSC	LM2575T-ADJ/NOPB	TO-220/5	Simple switcher 1A step-down volt. reg.	1.79	1.27
192372	+	LM2576HVT-ADJ	TO-220/5	Switcher 3A step-down V-reg, high Vin range	5.19	3.83
245569	+	LM2576T-5.0	TO-220/5	Simple switcher 3A step-down voltage reg.	2.59	2.07
894817	NSC	LM2576T-5.0/LB03	TO-220/5	Simple switcher 3A step-down, 1-temp	3.05	2.41
120977	+	LM2576T-ADJ	TO-220/5	Simple switcher 3A step-down voltage reg.	2.55	1.88
1298751	NSC	LM2675M-5.0/NOPB	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	3.55	2.71

## Low Drop-Out Voltage Regulators QUANTITY SAVE \*Web Code: MBT

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
299743	NSC	LM1084IT-ADJ	TO-220/3	5A low dropout adj. pos.	\$2.39	\$1.85	\$1.35
299735	NSC	LM1084IT-3.3	TO-220/3	5A low dropout 3.3V pos.	3.09	2.35	1.79
282757	+	LT1085CT	TO-220/3	3A low dropout adj./fixed pos.	1.79	1.62	1.21
192305	+	LM1086CT-3.3	TO-220/3	1.5A low dropout pos. (3.3V)	1.20	.89	.79
192313	+	LM1086CT-5.0	TO-220/3	1.5A low dropout pos. (5V)	1.95	1.51	.90
835631	NSC	LM1086CT-ADJ/NOPB	TO-220/3	1.5A adj. LDO pos, C-temp	1.65	1.52	1.30
251782	NSC	LM1117MPX-ADJ	SOT-223/3	800mA low dropout linear	.78	.66	.50
242114	+	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO	.83	.76	.68
314326	ANA	AP1184K5L	TO-263/5	4A ultra LDO adj. reg.	2.95	2.45	1.95

Continued on next page



## Low Drop-Out Voltage Regulators (Cont.)

\*Web Code: MBT

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
897188	NSC	LM2937ET-3.3	TO-220/3	500mA, 3.3V LDO, I-temp	\$2.45	\$1.81	\$1.32
297810	NSC	LM2937ET-5.0	TO-220/3	500mA, 5V LDO	1.35	1.19	.99
107182	+	LM2940CT-5	TO-220/3	5V LDO reg. (max. 45Vin)	1.39	1.05	.77
897381	NSC	LM2940CT-5.0	TO-220/3	1A, 5V LDO pos	1.26	.94	.78
192495	+	LM2940CT-12	TO-220/3	12V LDO reg. (max. 45Vin)	1.49	1.27	1.12
837505	NSC	LM2940T-5.0	TO-220/3	1A, 5V LDO, I-temp	1.79	1.34	.99
121064	+	LM2941CT	TO-220/5	1A LDO adjustable (45Vin)	1.55	1.12	.84
1944880	+	LP2950ACN	TO-92/3	100mA adj. LDO volt. reg.	.29	.25	.19
266757	+	LP2950CZ-5.0	TO-92/3	100mA low pwr. LDO	.84	.63	.328
121110	+	LP2951ACP	DIP-8	Adjustable $\mu$ power volt-reg.	.49	.39	.25
1315492	ON	LP2951CN-3.0	DIP-8	3V, 100mA LP LDO (I-temp)	.39	.29	.25
192524	+	LM3940IT-3.3	TO-220/3	1A LDO for 5V to 3.3V	1.95	1.46	1.09
252241	+	MIC29152BU	TO-263/5	High current LDO	2.19	2.13	1.45

## Voltage Regulators

QUANTITY SAVE

\*Web Code: TAC

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
23499	+	LM309K	TO-3/2	5V, 1A (0°C to +125°C)	\$5.89	\$5.01	\$3.76
192268	+	LM317AT	TO-220/3	3-terminal adj. (1.2V-37V)	1.75	1.25	.95
837898	NSC	LM317AT/NOPB	TO-220/3	3-term. 1.5A output adj pos, I-temp	.99	.74	.68
898359	NSC	LM317EMP	SOT-223/4	3-term. 1A output adj pos, C-temp	.61	.57	.516
192276	+	LM317HVT	TO-220/3	3-terminal adj. (1.2V-57V)	1.99	1.68	1.26
837927	NSC	LM317HVT/NOPB	TO-220/3	3-term. 1A output adj pos, C-temp	1.79	1.32	1.16
23544	+	LM317K	TO-3/2	1.5A adj. pos. (1.2V-37V)	2.49	2.40	1.80
23552	+	LM317LZ	TO-92/3	100mA adj. pos. (1.2V-37V)	.46	.328	.261
898543	NSC	LM317LZ/NOPB	TO-92/3	Adjustable, 100mA positive	.37	.279	.242
23579	+	LM317T	TO-220/3	1.5A adj. pos. (1.2V-37V)	.45	.39	.293
898800	NSC	LM317T/NOPB	TO-220/3	Adjustable, 1.5A positive	1.01	.94	.88
23667	+	LM323K	TO-3/2	5V 3A positive	3.05	2.89	2.41
296841	+	LM337LZ	TO-92/3	3-terminal adj. neg.	.90	.69	.50
23819	+	LM337T*	TO-220/3	1.5A/adj. neg. (-1.2V-37V)	.59	.55	.44
899520	NSC	LM337T/NOPB	TO-220/3	1.5A adjustable negative	1.22	.90	.83
23835	+	LM338K	TO-3/2	5A adj. pos. (1.2V-32V)	5.69	4.47	3.74
192284	+	LM338T	TO-220/3	5A adjustable	2.39	1.78	1.19
838621	NSC	LM338T/NOPB	TO-220/3	5A adjustable positive	2.09	1.60	1.50
900017	NSC	LM340T-5.0	TO-220/3	5V, 1A positive, I-temp	1.02	.91	.83
838831	NSC	LM340T-15/NOPB	TO-220/3	3-terminal 15V pos, C-temp	.93	.69	.64
23931	+	LM350K	TO-3/2	3A/3 term. adj. pos. (1.2V-33V)	4.85	4.12	3.64
23940	+	LM350T	TO-220/3	3A adjustable power	1.09	.89	.67
24467	+	LM723CN*	DIP-14	Voltage regulator (2V-37V)	.61	.49	.37
301719	+	LM723H	TO-5/10	2V - 37V, 150mA adj.	5.39	4.56	3.42
107166	NSC	LM2936Z-5	TO-92/3	Ultra-low quiescent current 5V	2.59	1.93	1.45
51246	+	7805K	TO-3/2	5V 1A pos. (LM340K-5)	5.15	3.95	2.95
51262	+	7805T	TO-220/3	5V 1A pos. (LM340T-5)	.35	.32	.28
924570	ST	L7805ACV	TO-220/3	5V, 1.5A pos.	.71	.56	.42
924609	ST	L7805CT	TO-3/2	5V, 1.5A pos.	2.69	2.57	1.87
924633	ST	L7805CV	TO-220/3	5V, 1.5A pos.	.59	.47	.35
902071	NSC	LM7805CT	TO-220/3	5V, 1A positive	.98	.92	.86
786138	FSC	LM7805CT	TO-220/3	5V, 1A pos., I-temp	.64	.54	.40
876109	ON	MC7805BT	TO-220/3	5V, 1A pos., I-temp	.48	.432	.363
876125	ON	MC7805BTG	TO-220/3	5V, 1A pos., I-temp	.31	.255	.236
876221	ON	MC7805CT	TO-220/3	5V, 1A pos., C-temp	.43	.416	.374
876248	ON	MC7805CTG	TO-220/3	5V, 1A pos., C-temp	.32	.26	.195
51182	+	78L05CZ	TO-92/3	5V 100mA pos.	.29	.26	.25
889428	ST	L78L05ACZ	TO-92/3	5V, 100mA pos.	.53	.423	.318
902291	NSC	LM78L05ACZ	TO-92/3	5V, 100mA positive	.72	.52	.377
973831	FSC	LM78L05ACZ	TO-92/3	5V, 100mA pos., I-temp	*	.168	.151
1303290	NSC	LM78L05ACZ/NOPB	TO-92/3	3-terminal 5V, 100mA pos	.71	.52	.37
192233	+	78M05	TO-220/3	5V 500mA pos.	.25	.21	.20

\*10 pcs./ \*\*20 pcs. included in Linear kit, pg 15

Product requires 1-2 additional days to ship. Request 'ship partial' if you want other items to ship sooner (note separate shipping charges will apply). Minimum order quantity & prices are subject to change.

\* ANA = Anachip | FSC = Fairchild Semi | NSC = National Semi | ON = ON Semi | ST = ST Micro | + Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161

## Voltage Regulators (Continued)

QUANTITY SAVE

\*Web Code: TAC

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
902514	NSC	LM78M05CD/NOPB	TO-252/3	3-terminal 5V positive	\$.74	\$.69	\$.65
51297	+	7806T	TO-220/3	6V 1A pos. (LM340T-6)	.43	.386	.227
51300	+	7808T	TO-220/3	8V 1A pos. (LM340T-8)	.56	.36	.27
840886	NSC	LM7808CT/NOPB	TO-220/3	8V, 1A positive, I-temp	1.23	1.09	.95
876791	ON	MC78L08ACPG	TO-92/3	8V, 100mA pos., C-temp	.34	.234	.211
876352	ON	MC7809CT	TO-220/3	9V, 1A pos., C-temp	.56	.466	.373
192225	+	78L09ACZ	TO-92/3	9V 100mA pos.	*	.23	.17
51318	+	7812K	TO-3/2	12V 1A pos. (LM340K-12)	2.19	1.80	1.35
51334	+	7812T	TO-220/3	12V 1A pos. (LM340T-12)	.35	.32	.24
889305	ST	L7812CV	TO-220/3	12V, 1.5A pos.	.48	.43	.384
902127	NSC	LM7812CT	TO-220/3	12V, 1A positive	1.05	.90	.85
876395	ON	MC7812BTG	TO-220/3	12V, 1A pos., I-temp	.43	.397	.30
876441	ON	MC7812CTG	TO-220/3	12V, 1A pos., C-temp	.39	.335	.265
51203	+	78L12*	TO-92/3	12V 100mA pos.	*	.12	.09
902389	NSC	LM78L12ACZ	TO-92/3	3-terminal 12V positive	.50	.35	.29
192241	+	78M12	TO-220/3	12V 500mA pos.	.71	.64	.58
51369	+	7815K	TO-3/2	15V 1A pos. (LM340K-15)	1.55	1.43	.92
51377	+	7815T	TO-220/3	15V 1A pos. (LM340T-15)	.32	.272	.204
902151	NSC	LM7815CT	TO-220/3	3-terminal 15V	.94	.80	.76
51414	+	7824T	TO-220/3	24V 1A pos. (LM340T-24)	.39	.356	.267
51457	+	7905T*	TO-220/3	-5V 1A neg. (LM320T-5)	.48	.40	.349
902637	NSC	LM7905CT	TO-220/3	3-terminal -5V negative	.77	.73	.68
877179	ON	MC7905CTG	TO-220/3	-5V, 1A neg., C-temp	.44	.372	.294
51422	+	79L05	TO-92/3	-5V 100mA pos.	.35	.261	.181
1305287	NSC	LM79L05ACZ/NOPB	TO-92/3	3-terminal -5V negative	*	.347	.274
877216	ON	MC7908CTG	TO-220/3	-8V, 1A neg., C-temp	.40	.338	.25
51481	+	7912T*	TO-220/3	-12V 1A neg. (LM320T-12)	.35	.298	.224
902661	NSC	LM7912CT	TO-220/3	3-terminal -12V negative	.77	.72	.68
902864	NSC	LM79L12ACZ	TO-92/3	3-terminal -12V negative	.41	.385	.305
877275	ON	MC7912CTG	TO-220/3	-12V, 1A neg., C-temp	1.59	1.45	1.30
51502	+	7915T	TO-220/3	-15V 1A neg. (LM320T-15)	.32	.272	.204

\*10 pcs./ \*\*20 pcs. included in Linear kit, pg 15

\*Power Drivers & Modules Available Online — Enter Web Code REK

## Switching Regulators

\*Web Code: DEN

Part No.	Mfr.	Part No.	Pkg./Pin	Description	1	10	100
1728790	LT	LT1074HVCT	TO-220/7	5.5A 100kHz step-down	\$14.59	\$13.66	\$12.99
1742524	LT	LT1959CS8#PBF	SOIC-8	4.5A 500kHz step-down, C-temp	10.99	8.82	7.60

\*Hot Swap Controller Available Online — Enter Web Code JAX

## Audio Amps

QUANTITY SAVE

\*Web Code: MBP

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
243678	ANA	OP275GP	DIP-8	Dual JFET audio op amp.	\$2.45	\$1.78	\$1.48
24037	NSC	LM380N	DIP-14	2-watt, power amp.	1.46	1.15	.57
24088	+	LM383T	TO-220/5	7-watt, high power	5.95	5.39	4.95
24096	NSC	LM384N	DIP-14	5-watt audio amp.	1.55	1.15	.79
839586	NSC	LM384N/NOPB	DIP-14	5-watt audio power amp.	1.29	.96	.85
24125	+	LM386N-1	DIP-8	Low voltage, 250mW/6V	.68	.51	.42
839826	NSC	LM386N-1/NOPB	DIP-8	Low voltage audio power amp.	1.09	.79	.57
24133	+	LM386N-3*	DIP-8	Low voltage, 500mW/9V	.69	.59	.49
295718	NSC	LM1203N	DIP-28	RGB video amp.	5.69	4.85	3.65
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation)	2.49	2.25	2.05
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	1.25	1.13	.77
245542	NSC	LM1881M	SOIC-8	Video synchronous separator	2.75	2.18	1.52

\*10 pieces included in Linear kit, pg 15

Continued on next page

Semiconductors

## Audio Amps (Continued)

\* Web Code: MBP

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
107140	NSC	LM1881N	DIP-8	Video synchronous separator	\$2.85	\$2.19	\$1.66
1416999	ST	TDA2030V	PWAT-5	14W hi-fi audio amp.	2.05	1.92	1.66
275830	TI	OPA2134PA	DIP-8	High performance audio op amp.	2.29	2.01	1.81
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp.	4.49	4.02	3.60
315344	ST	TDA2040V	PWAT-5	20W hi-fi power	2.09	1.95	1.85
320670	NSC	LM3886TF	TO-220/11	68W high perf., isol. pkg.	6.49	5.12	3.92
192516	NSC	LM3886T	TO-220/11	68W high perf.	6.09	5.18	3.89
302201	NSC	LM4752T	TO-220/7	Stereo 11W audio power amp.	2.59	1.92	1.40
316873	MOT	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	1.29	.99	.89
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC)	1.35	.97	.73

## Instrumentation Amp

\* Web Code: NDA

Part No.	Mfr.	Part No.	Pkg/Pins	Description	1	10	100
825934		INA126PA	DIP-8	µPwr instrumentation amp	\$2.25	\$1.78	\$1.73

## Comparators

QUANTITY SAVE

\* Web Code: EBS

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
282087	+	LM139J	CDIP-14	Low pwr, low offset volt quad.	\$4.09	\$3.45	\$2.59
23528	+	LM311N*	DIP-8	Voltage comparator	.35	.298	.224
837812	NSC	LM311N/NOPB	DIP-8	Voltage comparator	.85	.61	.441
143888	+	LM339AN	DIP-14	Low power quad comparator	.31	.29	.25
193594	+	LM339M	SOIC-14	Low pwr low offset volt quad	* .208	.156	.156
826742	TI	LM339N	DIP-14	Quad differential comparator	.44	.356	.267
23851	+	LM339N**	DIP-14	Quad comparator	* .19	.165	.165
120900	+	LM392N	DIP-8	Low power op amp./volt comp.	.80	.72	.65
24281	+	LM393N*	DIP-8	Dual comparator	* .19	.16	.16
903007	TI	LM393P	DIP-8	Dual differential comp., C-temp	.39	.306	.207
107238	+	LM3302N	DIP-14	Low pwr low offset volt quad	.47	.392	.326
1944741	ST	TS3721IN	DIP-8	LP dual CMOS volt (I-temp)	.39	.35	.25

\*10 pcs./\*\*20 pcs. included in Linear kit, pg 15

## Buffers

\* Web Code: WBR

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
277552	TI	BUF634P	DIP-8	250mA high speed buffer	\$5.99	\$5.59	\$5.29
277544	TI	BUF634T	TO-220/5	250mA high speed buffer	9.55	8.95	7.95
23051	+	LH0002CN	DIP-10	General purpose buffer	13.75	11.48	8.91

## Amplifiers

\* Web Code: EEN

Part No.	Mfr.	Part No.	Pkg.	Description	1	10	100
1778068		AD524AD	CDIP-16	Precision instrumentation amp	\$24.75	\$21.95	\$19.95
1780862		AD620ANZ	DIP-8	Low cost, LP instrumentation amp	6.89	6.28	5.70
1781021		AD624AD	CDIP-16	Precision instrumentation amp	28.35	24.60	23.68
1805943		ADXL213AE	LCC-8	5V, low cost ±2g dual-axis accelerometer	23.15	20.65	19.65

## Op Amps

QUANTITY SAVE

\* Web Code: WAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
27852	+	OP07CP	DIP-8	Ultra-low offset voltage	\$.69	\$.59	\$.518
828529	TI	OP07DD	SOIC-8	Precision op amp, C-temp	.78	.67	.397
252988	+	OP07DP	DIP-8	Very low offset single bipolar	.70	.59	.474
23106	+	LM10CLN	DIP-8	Low voltage (1.1 volt)	2.35	1.77	1.49
120715	+	LM10CN	DIP-8	Op amp and voltage reference	2.45	1.90	1.43
120723	NSC	LM12CLK	TO-3/4	80W op amp	25.95	23.95	20.95
275805	TI	OPA27GP	DIP-8	Ultra-low noise precision	3.95	3.36	2.96
275784	TI	OPA27GU	SOIC-8	Ultra-low noise precision	2.19	1.95	1.75
115300	+	OP27EP	DIP-8	Low noise precision op amp	4.39	3.57	2.67
115318	+	OP27GP	DIP-8	Low noise prec. (-40° to 80°C)	2.29	1.83	1.45
1944812	ST	TL27L2IN	DIP-8	Prec. very low pwr CMOS dual	.59	.49	.35
214068	+	TL034CN	DIP-14	Enhanced low power/offset	1.03	.94	.87
275768	+	OPA37GP	DIP-8	Ultra-low noise precision	2.15	2.05	1.65
821676	TI	TL0511P	DIP-8	Enhanced JFET low offset	.39	.29	.25

## Op Amps (Continued)

QUANTITY SAVE

\* Web Code: WAD

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
33187	+	TL071CP	DIP-8	Low noise JFET op amp.	\$.39	\$.302	\$.23
759762	TI	TL072ACD	SOIC-8	Low noise JFET input op amp	.55	.45	.405
33195	+	TL072CP*	DIP-8	Low noise JFET dual op amp.	.48	.454	.435
33216	+	TL074CN*	DIP-14	Low noise JFET quad op amp.	.58	.516	.41
213057	+	TL081ACP	DIP-8	JFET input, low offset w/ control	.66	.504	.279
33232	+	TL081CP	DIP-8	JFET input, offset control	.47	.356	.285
214076	+	TL082ACP	DIP-8	JFET input, low offset	.66	.51	.37
33241	+	TL082CP*	DIP-8	JFET input dual op amp.	.53	.403	.269
214084	+	TL084ACN	DIP-14	JFET input op amp.	.73	.55	.307
193535	+	TL084CD	SOIC-14	JFET input quad op amp.	.33	.276	.208
33267	+	TL084CN*	DIP-14	JFET input quad op amp.	.50	.425	.346
760149	TI	TL084ID	SOIC-14	JFET input op amp	.77	.59	.441
245673	+	LM308AH	TO-5/8	Precision op amplifier	5.09	3.78	3.24
23464	+	LM308N*	DIP-8	Precision op amplifier	6.59	5.95	5.35
23608	NSC	LM318N	DIP-8	Precision high speed	.79	.72	.65
212169	+	LM324AN	DIP-14	Low pwr quad, impr. offset	.35	.30	.25
838233	NSC	LM324AN/NOPB	DIP-14	Low power quad op amp	.64	.57	.52
899335	NSC	LM324M	SOIC-14	Low power quad op amp	.45	.378	.341
23683	+	LM324N**	DIP-14	Low pwr quad op amp	.28	.24	.21
838284	NSC	LM324N/NOPB	DIP-14	Low power quad op amp	.64	.57	.52
826671	TI	LM324NE4	DIP-14	Quad op amp	.26	.23	.19
22904	+	LF347N	DIP-14	Quad JFET input (wide band)	.67	.50	.378
23915	+	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.37	.302	.226
22912	+	LF351N	DIP-8	BIFET op amplifier	.39	.35	.263
22939	+	LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.48	.437	.402
901853	TI	LF353P	DIP-8	JFET input dual, C-temp	.52	.392	.294
22971	NSC	LF356N*	DIP-8	JFET input (wide band)	.95	.81	.59
120862	+	LM358AN	DIP-8	Low pwr dual (improved 358N)	.34	.289	.25
839332	NSC	LM358AN/NOPB	DIP-8	Low power dual op amp	.99	.74	.53
23966	+	LM358N*	DIP-8	Low pwr dual op amplifier	* .21	.18	.18
839367	NSC	LM358N/NOPB	DIP-8	Low power dual op amp	1.09	.79	.57
1944732	ST	LS404CN	DIP-14	High performance quad	.49	.39	.25
901896	TI	LF411CD	SOIC-8	JFET input, C-temp	.50	.421	.372
23018	+	LF411CN*	DIP-8	Low offset drift JFET input	1.35	1.00	.75
835500	NSC	LF411CN/NOPB	DIP-8	Low-offset, low-drift JFET input	.77	.72	.68
23026	+	LF412CN*	DIP-8	Low offset drift JFET input dual	1.39	1.05	.78
835526	NSC	LF412CN/NOPB	DIP-8	Low-offset, low-drift dual JFET input	1.49	1.10	.81
106681	+	LF442CN	DIP-8	Dual low power JFET input	1.35	1.00	.75
835542	NSC	LF442CN/NOPB	DIP-8	Dual low power JFET input	1.75	1.27	.92
119992	+	LF444CN	DIP-14	Quad low pwr JFET input	1.17	1.00	.69
835569	NSC	LF444CN/NOPB	DIP-14	Quad low power JFET input	1.18	1.06	.97
903533	NSC	LMC662AIN	DIP-8	CMOS dual op amp	2.09	1.55	1.17
120926	+	LM675T	TO-220/5	Power op amplifier	5.79	4.41	3.36
24491	+	LM733CN	DIP-14	Differential amplifier	1.15	.99	.74
24521	+	LM741CH	TO-5/8	Op amplifier	4.15	3.18	2.39
24539	+	LM741CN**	DIP-8	Op amplifier	.29	.25	.19
840763	NSC	LM741CN/NOPB	DIP-8	General purpose op amp	.82	.60	.43
830522	TI	UA741CP	DIP-8	Gen. purp. op amp	.39	.31	.23
830549	TI	UA741CPE4	DIP-8	Gen. purp. op amp	* .221	.157	.157
24563	+	LM747CN	DIP-14	Dual 741 op amplifier	.80	.67	.54
239222	+	LTC1001CN8	DIP-8	Precision op amp	2.75	2.05	1.89
239169	+	LT1013CP	DIP-8	Dual precision op amplifier	1.16	1.00	.75
239177	+	LT1014DN	DIP-14	Quad precision op amplifier	3.55	2.99	2.89
23131	+	LM1458N*	DIP-8	Dual op amplifier	.36	.33	.25
903509	TI	MC1458P	DIP-8	Dual gen. purp. op amp	.35	.279	.18
823525	TI	TL2272AIP	DIP-8	Advanced LinCMOS* rail-to-rail	1.65	1.47	1.37
1944839	+	TLV2772CP	DIP-8	Hi slew rate r-r output, w/ shdwn	.49	.39	.25
12116	+	CA3080E	DIP-8	Op transconductance amp.	3.95	3.36	2.96
12183	+	CA3130E	DIP-8	CMOS op amplifier	.88	.73	.67
12204	+	CA3140E	DIP-8	Bi-MOS op amplifier	.51	.434	.383
24168	+	LM3900N	DIP-14	Quad amplifier	.83	.71	.62

\*10 pcs./\*\*20 pcs. in Linear cabinet kit, pg 15

Continued on next page

\* MOT = Motorola | NSC = National Semiconductor | ST = ST Micro | TI = Texas Instruments | + Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



## Op Amps (Continued)

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	QUANTITY SAVE			* Web Code: WAD		
					1	10	100	1	10	100
29356	+	RC4136N	DIP-14	Quad op amp. (XR4136)	\$.90	\$.84	\$.55			
251125	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar	.44	.334	.25			
908289	TI	RC4558P	PDIP-8	Dual gen. purp. op amp	.45	.36	.247			
252970	+	NE5532AP	DIP-8	Dual lower noise op amp	.75	.69	.55			
27385	+	NE5532N*	DIP-8	Dual low noise op amplifier	.75	.59	.39			
27406	+	NE5534	DIP-8	Low noise op amplifier	.81	.68	.54			
904026	TI	NE5534AP	DIP-8	Low noise op amplifier	.65	.59	.541			
126893	NSC	LMC6482AIN	DIP-8	CMOS dual r-r I/O, lower VOS	2.09	1.62	1.13			
301356	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O, lower VOS	3.09	2.44	1.71			
312750	ADI	AD8052AR	SOIC-8	Low-cost high speed r-r	3.09	2.92	1.96			
192532	+	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.20	.99	.93			
871586	ON	MC33204P	DIP-14	Low voltage, rail-to-rail	.71	.351	.225			
1944775	ON	MC33174VP	DIP-14	Single supply 3V-44V op amp	.49	.39	.25			
251061	ON	MC34072P	DIP-8	Single supply 3V-44V op amp	3.19	2.85	2.58			

\*10 pcs. in Linear cabinet kit, pg 15

## Linear Series

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	QUANTITY SAVE			* Web Code: FAD		
					1	10	100	1	10	100
25751	+	MF10CN	DIP-20	Gen. purpose dual active filter	\$3.35	\$3.03	\$2.76			
16301	+	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)	5.95	5.49	5.05			
1062114	TI	TL026CP	DIP-8	Diff. high-freq. amp. w/ AGC	.49	.39	.25			
239281	+	DG201BDJ	DIP-16	Quad analog switch	1.79	1.50	1.34			
239329	+	DG211CJ	DIP-16	SPST quad ch. analog switch	4.25	3.42	2.19			
1341966	TI	L293DNE	DIP-16	Quad half-H drivers, I-temp	2.69	2.17	1.69			
1342011	TI	L293NE	DIP-16	Quad half-H drivers, C-temp	2.69	2.17	1.68			
1950876	CAL	CWB309	DIP-16	Quad mono CMOS/DMOS analog sw	2.95	2.49	1.95			
23721	+	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C)	2.39	1.83	1.28			
838372	NSC	LM331N/NOBP	DIP-8	Prec. volt-to-freq convtr., C-temp	2.79	2.13	1.62			
23739	NSC	LM334Z	TO-92/3	Adjust current source	1.19	.88	.64			
23771	NSC	LM336Z-2.5	TO-92/3	Voltage reference (2.5V)	.36	.264	.204			
120889	+	LM385B22.5	TO-92/3	Volt. ref. diode (2.5V ±1.5%)	.39	.37	.349			
24117	+	LM385Z1.2	TO-92/3	Microprv volt. ref. diode (1.2V)	.50	.453	.314			
23000	+	LF398N	DIP-8	Sample and hold circuit	1.79	1.33	.99			
833969	NSC	LF398N/NOBP	DIP-8	Monolithic sample & hold circuits	1.01	.94	.88			
309833	+	DG403DJ	DIP-16	Dual SPDT & SPDT analog switch	2.95	2.25	1.69			
272161	+	DG407DJ	DIP-28	Dual 8-ch multiplexer/demux	5.69	4.84	4.27			
256532	+	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer	2.15	1.85	1.39			
33347	+	TL431CLP	TO-92/3	Program precision reference	.40	.314	.236			
33355	+	TL494CN	DIP-16	Contrl circuit pulse-width-modulated	.43	.353	.286			
840579	NSC	LM555CN/NOBP	SOIC-8	Timer	.98	.73	.531			
27422	+	LM555CN*	DIP-8	Timer (MC1455P/NE555V)	.29	.23	.20			
840608	NSC	LM555CN/NOBP	DIP-8	Timer	1.19	.89	.65			
126797	+	LMC555CN	DIP-8	CMOS 555 timer	.66	.61	.458			
904051	TI	NE555D	SOIC-8	Precision timer	.35	.283	.199			
890091	ST	NE555N	DIP-8	Gen. purp. single bipolar timer	.27	.27	.228			
904085	TI	NE555P	DIP-8	Precision timer	.51	.441	.353			
909290	TI	SA555P	DIP-8	Precision timer, I-temp	.32	.27	.243			
761264	TI	TLC555CD	SOIC-8	LinCMOS™ timer, C-temp	.41	.306	.27			
761272	TI	TLC555CP	DIP-8	LinCMOS™ timer, C-temp	.46	.63	.45			
761301	TI	TLC555IP	DIP-8	LinCMOS™ timer	.94	.71	.53			
24328	+	LM556N*	DIP-14	Dual 555 timer	.82	.60	.45			
904114	TI	NE556N	DIP-14	Dual precision timer	.53	.47	.353			
27457	ST	NE558N	DIP-16	Quad timer (NE558C)	1.19	.99	.89			
27473	ST	NE564N	DIP-16	High freq. phase locked loop	2.75	2.49	2.25			
24352	+	LM565N	DIP-14	Phased locked loop	1.75	1.28	1.08			
24395	+	LM567CN	DIP-8	Tone decoder	.49	.417	.368			
246650	+	LMC567CN	DIP-8	Tone decoder	1.36	1.18	1.01			
27490	ST	NE571N	DIP-16	Compannder, subscriber	4.25	3.85	3.49			

\*10 pcs./ \*\*20 pcs. in Linear kit, pg 15

## Linear Series (Continued)

Part No.	*Mfr.	Product No.	Pkg/Pins	Description	QUANTITY SAVE			* Web Code: FAD		
					1	10	100	1	10	100
287785	ADI	AD581KH	TO-5/3	10V volt ref hi prec. 10mV tolerance	\$10.75	\$9.74	\$7.31			
918436	INS	SA612AD/01	SOIC-8	Dbl balanced mixer & oscillator	1.99	1.57	1.23			
115174	ADI	AD620AN	DIP-14	Low-cost instrument amp.	14.15	11.99	9.61			
115182	ADI	AD633JN	DIP-8	Low-cost analog multiplier	7.75	6.96	6.26			
118578	+	MC1495L	DIP-14	Linear 4 quadrant multiplier	9.95	8.95	8.05			
23211	+	LM1496N	DIP-14	Balanced mod/demodulator	.65	.56	.506			
1944821	+	P1803AC	TO-220	Balanced three-chip sidactor	1.49	1.25	.99			
193826	+	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.44	.353	.185			
1147063	TI	ULN2003ADE4	SOIC-16	Hi-volt/curr. darlington trans. array	.39	.172	.159			
34278	+	ULN2003AN	DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28			
1147178	TI	ULN2003AN	DIP-16	Hi-volt/curr. darlington trans. array	.63	.47	.35			
700630	TI	ULN2004AN	DIP-16	Hi-volt/curr. darlington trans. array	.53	.436	.327			
34294	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array	.39	.30	.23			
34972	+	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99			
34999	+	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.52	1.34			
280073	TI	TLE2426CLP	TO-92/3	Rail splitter prec. virtual ground	1.25	.99	.92			
34315	+	ULN2803A	DIP-18	Hi-volt/curr. darl. transistor array	.76	.65	.54			
700648	TI	ULN2803ADW	SOIC-18	Darlington transistor array, I-temp	.74	.63	.472			
700664	TI	ULN2803AN	DIP-18	Darlington transistor array, I-temp	1.29	1.10	.89			
890787	ST	ULN2804A	DIP-18	8 darlington array w/ common emitter	.54	.53	.49			
123625	NSC	LM2907N-8	DIP-8	Frequency to volt converter	1.85	1.36	1.06			
23317	+	LM2907N	DIP-14	Frequency to volt converter	1.31	.97	.93			
23350	NSC	LM2917N-8	DIP-8	Freq. to volt conv. w/ zener	1.99	1.53	1.06			
23341	NSC	LM2917N-14	DIP-14	Freq. to volt conv. w/ zener	1.75	1.32	1.22			
12079	+	CA3046N	DIP-14	NPN transistor array	.70	.58	.51			
12159	+	CA3086N	DIP-14	Transistor array NPN	1.59	1.45	1.30			
12247	+	CA3162E*	DIP-16	Dual slope&rate analog/digi. conv.	15.95	14.95	14.25			
31974	+	SG3524N	DIP-16	Regulating pulse width modulator	.61	.518	.431			
25275	+	MC4044P	DIP-14	Frequency phase detector	7.95	7.25	6.49			
698509	ST	M48202-150PC1	DIP-24	5V, 150ns, 16k zeropower™ SRAM	8.85	8.23	7.39			
698445	ST	M48T12-150PC1	DIP-24	5V, 150ns, 16k timekeeper SRAM	13.99	11.05	10.34			
698453	ST	M48T18-150PC1	DIP-28	5V, 150ns, 64k timekeeper SRAM	18.19	16.77	15.36			
1950868	CAL	CWB5341	DIP-14	Dual mono CMOS/DMOS analog sw	2.49	1.95	1.49			
1944759	NXP	SCA6579	DIP-16	Radio data system demodulator	.39	.35	.25			
875704	INS	ICM7555CBA	SOIC-8	General purpose timer	.36	.335	.297			
51140	+	7555IPA	DIP-8	CMOS timer	.39	.359	.291			
875712	INS	ICM7555IPA	DIP-8	Gen. purp timer, I-temp	.70	.67	.64			
51174	+	7660CPA	DIP-8	CMOS volt convtr (+5 to ±5V)	.75	.64	.48			
842371	NSC	LMC7660IN/NOBP	DIP-8	Switched cap. volt convtr	2.09	1.61	.93			
316646	+	ICL7662CPA	DIP-8	Volt convtr., 20VIN, 4.5-20V out	2.95	2.75	2.49			
1083476	TI	TL7712ACP	DIP-8	Supply voltage supervisor	.65	.49	.39			
25021	ON	MC14411P	DIP-24	Bit rate frequency generator	3.95	3.75	3.55			
25064	ON	MC14490P	DIP-16	Hex contact bounce eliminator	5.95	5.63	4.22			
118586	ON	MC145151P	DIP-28	Parallel input PLL freq synthesizer	6.15	5.20	4.10			
1054684	TI	SN754410NE	DIP-16	Quad half-H drivers	1.65	1.29	1.00			

\*10 pcs./ \*\*20 pcs. in Linear kit, below \* Pull = Extra Savings

## Linear & Interface IC Kit

SAVE \$65



Part No.	Description	Wt. (lbs.)	1	10
10 each:	TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003AN, ULN2803A, NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT			
20 each:	LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05CZ, 7812T			
84988	480 pcs. (40 types) analog IC kit	6.0	\$212.95	\$192.64
130411	Refill for 84988 (480 pcs.)	1.3	203.95	152.96

\* ADI = Analog Devices | CAL = Calogic | INS = Intersil | NSC = National Semi | NXP = NXP/Philip Semi | ON = ON Semi | TI = Texas Instruments | ST = ST Micro | + Manufacturer Varies

**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 161](#)

Semiconductors

## MICROCHIP Digital Potentiometer

\*Web Code: JBP

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
241744	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI digital pot	\$1.99	\$1.69	\$1.49

## Allegro Hall Effect Sensor

\*Web Code: REB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1718743	A1302EUA-T	SIP-3	Continuous-time ratiometric linear sensor	\$1.00	\$0.94	\$0.88

## Temperature Sensors

QUANTITY SAVE

\*Web Code: WAN

Part No.	Mfr.	Cross Ref.	Pkg/Pins	Description	1	10	100
107094	LM34CZ	TO-92/3		Prec temp sensor (-40° to +230°F)	\$5.49	\$4.35	\$4.25
193480	LM34DM	SOIC-8		Prec temp sensor (-55° to 300°F)	2.09	1.63	.95
155192	LM34DZ	TO-92/3		Prec temp sensor (+32° to +212°F)	1.99	1.67	1.25
107107	LM35CZ	TO-92/3		Prec temp sensor (-40° to 110°C)	5.19	4.41	3.31
192217	LM35DT	TO-220/3		Prec temp sensor (-55° to 150°C)	2.35	2.00	1.50
155740	LM35DZ	TO-92/3		Prec temp sensor (0° to +100°C)	1.69	1.35	1.25
120820	LM335AZ	TO-92/3		Precision temp sensor	.98	.90	.86
23755	LM335Z	TO-92/3		Volt mode temp sensor	.67	.61	.44
241939	AD590JH	TO-52/3		Two terminal IC temp transducer	6.85	6.49	6.19
313306	ADI AD594AQ	DIP-14		Thermocouple amp for iron-constantan	14.29	12.16	9.12
313293	ADI AD595AQ	DIP-14		Thermocouple amp for chromel-alumel	14.89	13.08	11.57
302551	DS18S20	TO-92/3		High-prec. 1-wire digital thermo	3.21	3.05	2.89

\*Pressure Sensors Available Online — Enter Web Code JBV

## Transistors

QUANTITY SAVE

\*Web Code: FEN

Part No.	Mfr.	Cross Ref.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>C</sub> )	1	10	100
26462	MPSA06	TO-92	NPN	80	100k @ .01A	.....	* .035	* .025	
26489	MPSA13*	TO-92	NPN	30	5k @ .01A	.....	* .091	.058	
210593	MPSA14	TO-92	NPN	30	20k @ .10A	.....	* .067	.042	
800892	ON MPSA27RLRAG	TO-92	NPN	60	10000 @ .01A	.....	* .118	.106	
33021	TIP29A	TO-220	NPN	60	15 @ 1A	.....	.43	.366	.323
33048	TIP31A*	TO-220	NPN	60	10 @ 3A	.....	.49	.39	.35
179354	FSC TIP31C	TO-220	NPN	100	10 @ 3A	.....	.49	.441	.353
890568	ST TIP35C	TO-218	NPN	100	25 @ 1.5A	.....	1.25	1.17	1.10
33081	TIP41A	TO-220	NPN	60	15 @ 3A	.....	.65	.55	.488
179371	TIP41C	TO-220	NPN	100	15 @ 3A	.....	.35	.298	.248
178546	MPSA42	TO-92	NPN	30	40 @ .03A	.....	* .097	.079	
878622	ON MPSA42G	TO-92	NPN	300	40 @ .01A	.....	* .079	.07	
811102	ST BUX48A	TO-218	NPN	450	450 @ 15A	.....	6.39	5.75	5.17
288631	TIP48	TO-220	NPN	300	30 @ 3A	.....	.49	.42	.37
179240	FSC TIP102	TO-220	NPN	100	1k @ 3A	.....	.54	.459	.405
32977	TIP102*	TO-220	NPN	100	1k @ 3A	.....	.57	.49	.41
1094723	FSC TIP102_NL	TO-220	NPN	100	1k @ 3A	.....	.35	.322	.29
32993	TIP120*	TO-220	NPN	60	1k @ 3A	.....	.49	.45	.39
179291	FSC TIP120	TO-220	NPN	60	1k @ 3A	.....	.54	.486	.389
179303	FSC TIP122	TO-220	NPN	100	1k @ 3A	.....	.55	.42	.32
120416	TIP122	TO-220	NPN	100	1k @ 3A	.....	.42	.37	.35
890445	ST TIP142	TO-218	NPN	100	1k @ 0.5A	.....	1.43	1.34	1.24
211529	MJE340	TO-225	NPN	300	30 @ 0.5A	.....	.27	.24	.18
254799	BC547C	TO-92	NPN	45	600 @ .002A	.....	* .046	.039	
800568	MOT MPS918	TO-92	NPN	15	20 @ .003A	.....	* .07	.055	
38228	2N2219A	TO-39	NPN	40	100 @ .15A	.....	.41	.349	.308
924289	ST 2N2222	TO-39	NPN	30	35 @ 0.1mA	.....	.55	.507	.479
26446	MPO2222	DIP-14	NPN	40	100 @ .15A	.....	2.79	2.37	2.09
28628	PN2222*	TO-92	NPN	30	100 @ .15A	.....	* .075	.065	
38236	2N2222A*	TO-18	NPN	40	100 @ .15A	.....	.42	.41	.39
213938	MMBT2222A	SOT-23	NPN	40	100 @ .15A	.....	* .04	.03	
213997	MMPO2222A	SOIC-16	NPN	40	100 @ .15A	.....	.83	.70	.56
210673	MPS2222A	TO-92	NPN	40	40 @ .50A	.....	* .058	.052	
178511	PN2222A	TO-92	NPN	40	100 @ .15A	.....	* .13	.092	
787536	FSC PN2222ABU	TO-92	NPN	40	75 @ .01A	.....	* .075	.053	

\*10 pcs./\*\*100 pcs. in Transistor cabinet kit, pg 17

## Transistors (Continued)

QUANTITY SAVE

\*Web Code: FEN

Part No.	Mfr.	Cross Ref.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>C</sub> )	1	10	100	
803268	ON	PN2222AG	TO-92	NPN	40	50 @ .001A	.....	* .037	* .033	
803049	ON	P2N2222AG	TO-92	NPN	40	35 @ .01A	.....	* .167	.147	
787552	FSC	PN2222ATF	TO-92	NPN	40	75 @ .01A	.....	* .056	.038	
1945014	FSC	PN2484	TO-92	NPN	60	250 @ .001A	.....	* .07	.045	
273105	NTE	NTE2507	TO-220	NPN	200	40 @ .05A	.....	5.29	4.99	4.79
38295		2N3053*	TO-39	NPN	40	25 @ .15A	.....	.51	.45	.38
38308		2N3055*	TO-3	NPN	60	15 @ 10A	.....	.89	.79	.68
211385		TIP3055	TO-218	NPN	60	5 @ .001A	.....	1.39	1.23	.88
211406		2N3055A	TO-3	NPN	60	20 @ 4A	.....	1.55	1.32	1.16
25857		MJE3055T	TO-220	NPN	60	20 @ 4A	.....	.57	.53	.49
194415		2N3439	TO-39	NPN	350	40 @ 0.2A	.....	.45	.404	.364
1944919	NSC	PN3566	TO-92	NPN	30	80 @ .002A	.....	* .06	.035	
209242		2N3771	TO-3	NPN	40	15 @ 15A	.....	1.99	1.79	1.35
140151		2N3773	TO-3	NPN	140	15 @ 8A	.....	2.95	2.66	1.99
38359		2N3904*	TO-92	NPN	40	100 @ .01A	.....	* .069	.057	
178597	FSC	2N3904	TO-92	NPN	40	100 @ .01A	.....	* .09	.06	
783421	FSC	2N3904R	TO-92	NPN	40	100 @ .01A	.....	* .051	.031	
885161	ON	2N3904G	TO-92	NPN	40	40 @ 0.1mA	.....	* .052	.04	
885208	ON	2N3904RLRAG	TO-92	NPN	40	100 @ .001A	.....	* .041	.037	
94967		MMBT3904	SOT-23	NPN	40	100 @ .01A	.....	* .042	.034	
1944927	FSC	PN4275	TO-92	NPN	15	35 @ .01A	.....	* .055	.035	
38421		2N4401*	TO-92	NPN	40	100 @ .15A	.....	* .08	.06	
1201380	FSC	PN4953	TO-92	NPN	30	150 @ .01A	.....	* .07	.045	
310666		2N5038	TO-3	NPN	150	20 @ 12A	.....	7.95	7.45	6.95
1945081	FSC	2N5306	TO-92	NPN	25	7000 @ .002A	.....	* .07	.05	
194600		2N6059	TO-3	NPN	100	750 @ 6A	.....	1.95	1.75	1.65
924300	ST	2N6284	TO-3/2	NPN	100	750 @ 10A	.....	3.69	3.05	2.79
1945031	FSC	MPS6515	TO-92	NPN	25	250 @ .002A	.....	* .07	.045	
194618		2N6547	TO-3	NPN	400	12 @ 5A	.....	4.29	3.98	3.43
194626		2N6678	TO-3	NPN	400	8 @ 15A	.....	6.79	5.77	5.09
33030		TIP30A	TO-220	PNP	60	15 @ 1A	.....	.60	.54	.40
33064		TIP32A*	TO-220	PNP	60	10 @ 3A	.....	.42	.357	.315
181841		TIP32C	TO-220	PNP	100	10 @ 3A	.....	.29	.261	.222
890592	ST	TIP36C	TO-218	PNP	100	25 @ 1.5A	.....	1.13	1.11	1.03
33101		TIP42A	TO-220	PNP	60	15 @ 3A	.....	.48	.403	.287
139580		TIP42C	TO-220	PNP	100	15 @ 3A	.....	.34	.31	.28
179258		TIP107	TO-220	PNP	100	1k @ 3A	.....	.43	.36	.33
288526		TIP115	TO-220	PNP	60	1k @ 1A	.....	.39	.328	.232
33013		TIP125	TO-220	PNP	60	1k @ 3A	.....	.49	.441	.353
179320		TIP127	TO-220	PNP	100	1k @ 3A	.....	.39	.33	.249
1085500	FSC	MPS750RL	TO-92	PNP	40	75 @ 0.5A	.....	* .15	.12	
194378		2N2905A	TO-39	PNP	60	100 @ .15A	.....	.52	.43	.32
924297	ST	2N2907	TO-39/3	PNP	-40	75 @ -.01A	.....	.46	.441	.414
26454		MPO2907	DIP-14	PNP	40	100 @ .15A	.....	2.29	1.95	1.72
28644		PN2907*	TO-92	PNP	40	100 @ .15A	.....	* .106	.085	
211342		MPS2907A	TO-92	PNP	60	100 @ .15A	.....	* .069	.052	
178520		PN2907A	TO-92	PNP	60	100 @ .15A	.....	* .075	.055	
38279		2N2907A*	TO-18	PNP	60	100 @ .15A	.....	.38	.33	.25
25831		MJE2955T	TO-220	PNP	60	20 @ 4A	.....	.53	.477	.36
1944986	FSC	PN3644	TO-92	PNP	45	100 @ .01A	.....	* .07	.045	
178618	FSC	2N3906	TO-92	PNP	40	100 @ .01A	.....	* .046	.042	
38375		2N3906**	TO-92	PNP	40	100 @ .01A	.....	* .066	.042	
805597	ON	2N3906G	TO-92	PNP	40	100 @ 10A	.....	* .05	.044	
1944943	FSC	PN4122	TO-92	PNP	40	150 @ 1mA	.....	* .055	.035	
1944951	FSC	PN4355	TO-92	PNP	60	100 @ 1mA	.....	* .18	.15	
38447		2N4403*	TO-92	PNP	40	100 @ .15A	.....	* .048	.032	
1944935	FSC	PN4917	TO-92	PNP	30	150 @ 1mA	.....	* .06	.04	
253438		2N5884	TO-3	PNP	80	4 @ 25A	.....			



## J-FETs

QUANTITY SAVE

Please Note: Manufacturer may vary

\*Web Code: JAD

Part No.	Cross Ref.	Pkg.	Desc.	BV <sub>GS</sub> @ I <sub>G</sub> (μA)	I <sub>DSS</sub> (mA) @ V <sub>DS</sub>	* Order in multiples of 10			
						1	10	100	1000
26403	MPF102*	TO-92	N-Ch	-25 @ -10	2 @ 15	...	...	...	...
1945006	PN4093	TO-92	N-Ch	-40 @ 1	15 @ 20	...	...	...	...
253948	2N5457	TO-92	N-Ch	-25 @ -10	1 @ 15	...	...	...	...
253921	2N5458	TO-92	N-Ch	-25 @ -10	2 @ 15	...	...	...	...
38527	2N5951*	TO-92	N-Ch	-30 @ -1	7 @ 15	...	...	...	...
253913	2N5460	TO-92	P-Ch	40 @ 10	-1 @ -15	...	...	...	...

\*10 pcs. in Transistor cabinet kit, below

## Transistor Assortment Cabinet Kit

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 152 and 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120  
 100 each: 2N3904, 2N3906, PN2222, PN2907



SAVE \$18

Part No.	Description	Wt. (lbs.)	1	10
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$75.95	\$74.59
130374	Refill for 82595 (560 pcs.)	0.4	61.95	55.75

## Heat Sinks

NEW

QUANTITY SAVE

\*Web Code: JAB



- Material: black anodized aluminum (except for P/N 107297 – light weight alum.)
- P/N 42622 can be mounted vertically with solderable mounting tabs

Part No.	*Mfr.	Product No.	Type	Hole	Size (L" x W" x H")	1	10	100
2077335	AVD	501200B00	DIP-14/16	0	0.73 x 0.25 x 0.19	\$ .59	\$ .49	\$ .39
326757	JVP	529801B025000	TO-218	3	1.64 x 1.00 x 1.50	1.19	.99	.85
696714	AVD	577002B000000G	TO-220	1	0.52 x 0.25 x 0.75	.39	.297	.24
158051	AVD	577102B000000G	TO-220	1	0.52 x 0.36 x 0.75	.35	.315	.252
1115643	AVD	577202B000000G	TO-220	1	0.52 x 0.50 x 0.75	.45	.39	.32
696722	AVD	581002B025000G	TO-220	1	0.64 x 0.64 x 1.00	1.25	1.10	1.07
326596	+	507302B000000	TO-220	1	0.75 x 0.38 x 0.75	.29	.225	.162
70658	JVP	THM6073	TO-220	1	0.75 x 0.36 x 0.75	.35	.28	.19
2077327	COM	8314021B00 (TO-262)	TO-220	0	0.75 x 0.50 x 0.50	.39	.29	.29
40504	WKF	291-H-36AB	TO-220	1	1.00 x 0.36 x 0.86	.87	.62	.44
107297	+	PSC2-U (cup-style)	TO-220	0	1.00 x 0.42 x 0.80	.49	.441	.392
42622	+	286AB	TO-220	1	1.18 x 1.00 x 0.50	.39	.35	.25
70915	JVP	THM6106	TO-220	2	1.18 x 1.00 x 0.50	.70	.60	.56
326693	JVP	531002B05200	TO-220	2	1.38 x 0.50 x 1.00	.84	.75	.65
326713	JVP	531102B02500	TO-220	3	1.38 x 0.50 x 1.50	.92	.83	.66
151547	+	635-125B2	TO-3	4	1.83 x 1.40 x 1.25	1.49	1.45	1.31
189835	AVD	635-5B2	TO-3	4	1.90 x 1.40 x 0.50	.77	.68	.59
16513	+	DUDE4	TO-3	4	4.75 x 1.50 x 1.25	3.69	3.43	2.59
129226	+	For 486 CPUs (adhesive back)		0	1.58 x 1.58 x 0.39	2.95	2.21	2.10

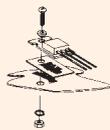
## Accessories

Part No.	*Mfr.	Part No.	Description	1	10	100
1582541	WKF	120-8	Silicon oil-based compound 8oz. jar	\$27.65	\$24.95	\$20.47
1582559	WKF	173-7-220P	DeltaPAD™ insulator for TO-220	1.79	1.60	1.45
1582575	WKF	175-6-240-P	KAPTON™ reinforced insulator for TO-220	.46	.32	.23

## Heat Sink Mounting Kit

- TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit	\$3.95	\$3.55	\$3.19



▲ Product requires 1-2 additional days to ship. Request 'ship partial' if you want other items to ship sooner (note separate shipping charges will apply). Minimum order quantity & prices are subject to change.

\* AVD = Aavid Thermoalloy | COM = Comair | FSC = Fairchild | INR = International Rectifier | JVP = Jameco Value Pro | WKF = Wakefield | + Manufacturer Varies

## N-Channel & P-Channel MOSFETs

QUANTITY SAVE

\*Web Code: GCJ

Part No.	*Mfr.	Cross Ref.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	* Order in multiples of 10		
							1	10	100
669871	+	IRFZ24N	TO-220AB	N-Ch	55	17A	\$ .59	\$ .49	\$ .45
669927	+	IRFBG30	TO-220AB	N-Ch	1000	3.1A	1.39	1.11	.83
669935	+	IRFZ34N	TO-220AB	N-Ch	55	26A	.59	.468	.42
669943	+	IRLZ34N	TO-220AB	N-Ch	55	30A	.69	.62	.46
669951	+	IRFZ44N	TO-220AB	N-Ch	55	49A	.82	.65	.59
669978	+	IRFZ46N	TO-220AB	N-Ch	55	53A	.99	.94	.69
669986	+	IRFZ48N	TO-220AB	N-Ch	55	64A	.86	.69	.62
256031	+	BS170	TO-92	N-Ch	60	0.5A (max.)	...	...	...
670080	+	IRFP250	TO-247	N-Ch	200	30A	3.05	2.50	1.88
670101	+	IRFP260N	TO-247	N-Ch	200	50A	3.45	2.92	2.51
670135	+	IRFP450	TO-247	N-Ch	500	14A	3.25	2.21	1.97
670143	+	IRFP460	TO-247	N-Ch	500	20A	2.95	2.39	2.15
209234	+	IRF510	TO-220	N-Ch	100	5.6A	.69	.59	.55
1559885	INR	IRF510PBF	TO-220AB	N-Ch	100	5.6A	1.01	.82	.71
209226	+	IRF520	TO-220	N-Ch	100	10A	.56	.48	.45
209058	+	IRL520N	TO-220	N-Ch	100	10A	.77	.62	.56
210500	+	IRF530	TO-220	N-Ch	100	14A	.66	.57	.52
670151	+	IRF530N	TO-220AB	N-Ch	100	17A	.71	.58	.444
210518	+	IRF540	TO-220	N-Ch	100	27A	.78	.63	.57
210526	+	IRF620	TO-220	N-Ch	200	6.0A	.45	.405	.35
210534	+	IRF630	TO-220	N-Ch	200	9.0A	.94	.82	.529
210542	+	IRF640	TO-220	N-Ch	200	18A	.90	.83	.63
1560270	INR	IRF640N	TO-220AB	N-Ch	200	18A	2.85	1.87	1.76
670231	+	IRF644	TO-220AB	N-Ch	250	14A	.99	.89	.67
210551	+	IRF730	TO-220	N-Ch	400	5.5A	.87	.66	.49
210569	+	IRF740	TO-220	N-Ch	400	10A	1.25	1.10	.83
210577	+	IRF820	TO-220	N-Ch	500	4.0A	.48	.432	.384
210585	+	IRF830	TO-220	N-Ch	500	4.5A	.78	.74	.55
184719	+	IRF840	TO-220	N-Ch	500	8.0A	1.28	1.05	.79
670282	+	IRF1405	TO-220AB	N-Ch	55	169A	3.85	3.44	2.87
279460	+	VN2222LL	TO-92	N-Ch	60	0.75A	.35	.304	.228
873602	FSC	MTP3055VL	TO-220	N-Ch	60	12A	.69	.56	.45
618089	+	IRF3205	TO-220	N-Ch	55	110A	5.15	2.10	1.74
670354	+	IRF3415	TO-220AB	N-Ch	150	43A	1.75	1.60	1.20
618071	+	IRL3705	TO-220	N-Ch	55	89A	1.37	1.23	.82
875051	FSC	RFP50N06	TO-220AB	N-Ch	60	50A	1.19	1.12	.90
178669	FSC	2N7000*	TO-92	N-Ch	60	0.2A	.25	.194	.136
119423	+	2N7000	TO-92	N-Ch	60	0.3A	...	...	...
783594	FSC	2N7000	TO-92	N-Ch	60	0.75A	...	...	...
140169	+	2N7002	SOT-23	N-Ch	60	0.5A	...	...	...
256057	+	BS250	TO-92	P-Ch	-45	0.25A (max.)	.37	.34	.255
1944901	+	ZVP3306A†	TO-92	P-Ch	-60	-0.4A	.59	.49	.35
255054	+	SI4463DY	SOIC-8	P-Ch	-20	-30A	1.69	1.49	1.45
670442	+	IRF4905	TO-220AB	P-Ch	-55	-74A	2.09	1.96	1.84
670451	+	IRF4905S	D2PAK	P-Ch	-55	-74A	2.85	2.25	2.04
670477	+	IRF5210	TO-220AB	P-Ch	-100	-40A	1.85	1.50	1.45
670485	+	IRF5305	TO-220AB	P-Ch	-55	-31A	1.29	1.16	1.03
670531	+	IRF7404	SOIC-8	P-Ch	-20	-7.7A	2.09	1.88	1.69
670581	+	IRF9234N	TO-220AB	P-Ch	-55	-1.8A	.95	.84	.71
670629	+	IRF9520	TO-220AB	P-Ch	-100	6A	.81	.80	.72
670741	+	IRF9530	TO-220AB	P-Ch	-100	-12A	.82	.66	.59
670637	+	IRF9530N	TO-220AB	P-Ch	-100	-14A	1.09	.95	.75
670645	+	IRF9540N	TO-220AB	P-Ch	-100	-23A	1.42	1.20	.90
670653	+	IRF9640	TO-220AB	P-Ch	-200	-11A	4.25	3.85	3.45

\*10 pcs. in Transistor cabinet kit, above left † DMOS FET ⊕ Blue Part No. = Limited Quantity

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com)/More and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

Semiconductors

## Hexfet Power MOSFETs \*Web Code: HDU

Part No.	Mfr. Part No.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1 10 100		
						1	10	100
1563083	IRFZ24	TO-220AB	N-Ch 60	17A		\$1.22	\$1.14	\$1.09
1563147	IRF244NPBF	TO-220AB	N-Ch 55	49A		.88	.68	.59
1562363	IRFP450PBF	TO-247AC	N-Ch 500	14A		3.25	2.21	1.97
1560051	IRF540NPBF	TO-220AB	N-Ch 100	33A		1.32	1.07	.97
1559965	IRF5305PBF	TO-220AB	P-Ch -55	-31A		1.69	1.30	1.12
1561619	IRF9640PBF	TO-220AB	P-Ch -400	-11A		1.25	1.07	.96

## Small Signal Diodes \*Web Code: JDQ

Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	10	100
1215759	FSC	BAV74_NL	SOT-23	50V <sub>RRM</sub> , 0.2A	\$.041	\$.026
179207	VSH	1N914	DO-35	100PRV	.03	.027
36311	+	1N914	DO-35	75PRV, 0.01A	.025	.022
655269	+	1N914A	DO-35	100VRRM, 0.2A	.064	.058

\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 19

## Zener Diodes \*Web Code: LAF

Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	10	100
1039433	VSH	MMS5230B-V-GS08	SOD123	4.7V	0.5W	\$.041	\$.031
178773	VSH	1N4732A	DO-41	4.7V	1W	.084	.076
36097	+	1N4733A	DO-41	5.1V	1W	.08	.065
178837	+	1N4739A	DO-41	9.1V	1W	.147	.132
36169	+	1N4742A	DO-41	12V	1W	.074	.056
36185	+	1N4744A	DO-41	15V	1W	.06	.045
743488	FSC	1N5226B	DO-35	3.3V	0.5W	.029	.026
804607	ON	1N539BG	Surmetic-40	5.6V	5W	.205	.187
804623	ON	1N5341BG	Surmetic-40	6.2V	5W	.197	.185
743584	ON	1N5342BG	Surmetic-40	6.8V	5W	.205	.187
804818	ON	1N5352BG	Surmetic-40	15.0V	5W	.222	.203
804914	ON	1N5359BG	Surmetic-40	24.0V	5W	.231	.221
1305367	ON	1N5365BG	Surmetic-40	36.0V	5W	.18	.162

\* 10 pcs. in Diode/Rectifier cabinet kit, pg 19

## Diodes \*Web Code: PAK

Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
35941	+	1N270*	DO-7	80PRV (Germanium)	\$.99	\$.86	\$.74
259469	NTE	NTE583	DO-7	Schottky RF switch	1.46	1.38	1.17
1539331	DDI	BAV99-7-F	SOT-23	75V <sub>RRM</sub> , 300mA	.39	.265	.132
312101	+	MBR1100	DO-41	100PRV, 1.0A (Schottky)	.40	.223	.145
787940	FSC	RURP3020	TO-220AC	200V <sub>RRM</sub> , 30A (Ultrafast)	1.75	1.49	1.29
1559164	INR	HFA08TB60PBF	TO-220AC	600VBR, 8A (Ultrafast)	.62	.531	.466
179215	VSH	1N4148	DO-35	100PRV (Switching)	* .012	* .009	
36038	+	1N4148**	DO-35	75PRV, 0.01A (Switching)	* .04	* .03	
151247	+	1N4148T+R	DO-35	75PRV, 0.01A (Switching)	* .016	* .013	
743656	ST	1N5711	DO-35	70V <sub>RRM</sub> , 15mA (Schottky)	.40	.29	.20
1547956	AVT	5082-2835	Glass axial	Schottky barrier gen. purp.	1.40	1.17	1.03
1547999	AVT	5082-3081	Glass axial	Pin diode for RF switch & Atten	2.89	2.44	2.05

\* 10 pcs. / \*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 19

## SanRex® Fast-On & Thru-Hole Pkg. Triacs \*Web Code: PCH

Part No.	Mfr. Part No.†	Pkg.	Rating (V <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
658216	TG35E60	Fast-On	Isolated 35A, 600V	\$9.09	\$7.87	\$6.81
658267	TG35F40	Fast-On	Isolated 35A, 400V	9.09	7.73	6.34
658275	TG35F60	Fast-On	Isolated 35A, 600V	9.09	7.87	6.81
657192	TMG8C60F	TO-220F	Isolated 8A, 600V	1.09	.93	.82

† For cross references to Littelfuse, ST, and ON Semi products, refer to datasheets @ Jameco.com.

## Triacs \*Web Code: PAE

Part No.	*Mfr.	Product No.	Pkg.	Rating	1	10	100
31819	+	SC146B	TO-220	200 V <sub>DRM</sub> , 10A (2N6342)	\$1.49	\$1.25	\$1.05
31827	+	SC146M	TO-220	600 V <sub>DRM</sub> , 10A (2N6344)	1.99	1.68	1.26
1165690	BNS	TIC201M	TO-220	600 V <sub>DRM</sub> , 2.5A	.49	.35	.25
220492	TEC	Q4008R4	TO-220AB	400 V <sub>DRM</sub> , 8A	1.12	1.03	.77
139336	TEC	Q4015L5	TO-220AB	400 V <sub>DRM</sub> , 15A	1.65	1.48	1.33
160215	TEC	O6008L5	TO-220AB	600 V <sub>DRM</sub> , 8A	1.39	1.25	.94
220505	TEC	O6025R6	TO-220AB	600 V <sub>DRM</sub> , 25A	2.39	2.17	1.63
220521	TEC	O6035P5	TO-3	600 V <sub>DRM</sub> , 35A	9.09	7.87	6.34
140425	+	2N6071A	TO-225AA	200 V <sub>DRM</sub> , 4A	.39	.324	.281

## Transient Voltage Suppressor \*Web Code: OBQ

Order in multiples of 10

Part No.	Cross Ref.	Watts	Pkg.	Min. Brkdown Volt. (VBR)	Stand-Off Voltage	10	100	1000
256663	P6KE6.8A	600	DO-15	6.45	5.8	\$.169	\$.159	\$.15

## Silicon Controlled Rectifiers (SCRs) \*Web Code: BAB

Order in multiples of 10

Part No.	*Mfr.	Cross Ref.	Pkg.	Rating	1	10	100
14859	+	C38M	TO-65	600 PRV, 35A (2N3899)	\$6.99	\$6.29	\$5.69
14736	+	C106B1*	TO-202	200 PRV, 4A (2N6239)†	.67	.54	.46
14752	+	C122B	TO-220	200 PRV, 8A	1.29	1.00	.70
14761	+	C122M	TO-220	600 PRV, 8A†	1.35	1.25	.94
119802	+	2N5060	TO-92	25 PRV, 0.8A	.30	.249	.213
211422	+	2N5061	TO-92	60 PRV, 0.8A	* .143	* .111	
160135	TEC	S6025L	TO-220AB	600 V <sub>DRM</sub> , 25A	1.69	1.52	1.35
885654	ON	2N6509	TO-220AB	800 V <sub>DRM</sub> , 25A	1.11	1.08	.88

† Isolated \* 10 pcs. in Diode/Rectifier cabinet kit, pg 19

## Rectifiers \*Web Code: LBD

Order in multiples of 10

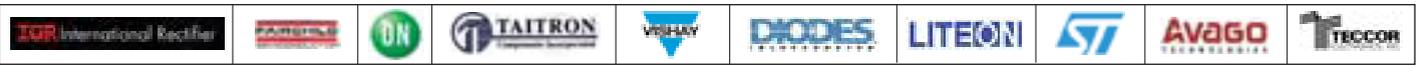
Part No.	*Mfr.	Cross Ref.	Pkg.	Rating	1	10	100
177754	TAT	T6A05L	T6L	50 PIV, 6A	\$.36	\$.32	\$.288
177762	TAT	T6A10L	T6L	100 PIV, 6A	.75	.65	.488
177818	TAT	T6A100L	T6L	1000 PIV, 6A	.80	.72	.54
879975	FSS	MURS120T3G	SMB	200V <sub>RRM</sub> , 2A	.43	.39	.364
801617	ON	MR856G	Case-267	600 @ 3A	* .117	* .103	
35924	+	1N1188	DO-5	400 PRV, 35A	4.49	4.45	4.14
879596	ON	MUR3060PT	TO-218	200 @ 30A (Switchmode™)	2.69	2.39	2.03
35975	+	1N4001*	DO-41	50 PRV, 1A	* .04	* .028	
1537862	DDI	1N4001G-T	DO-41	50V <sub>RRM</sub> , 1A	* .055	* .05	
76961	+	1N4002	DO-41	100 PRV, 1A	* .043	* .032	
76970	+	1N4003	DO-41	200 PRV, 1A	* .042	* .037	
35991	+	1N4004**	DO-41	400 PRV, 1A	* .04	* .028	
76988	+	1N4005	DO-41	600 PRV, 1A	* .037	* .028	
76996	+	1N4006	DO-41	800 PRV, 1A	* .04	* .03	
36011	+	1N4007	DO-41	1000 PRV, 1A	* .042	* .03	
1537951	DDI	1N4007-T	DO-41	1000 V <sub>RRM</sub> , 1A	.25	.107	.074
804543	ON	1N4007RLG	DO-41	1000 @ 1A	* .075	* .067	
36249	+	1N5401	DO-201AD	100 PIV, 3A	* .134	* .101	
77083	+	1N5402	DO-27A	200 PRV, 3A	* .138	* .101	
36265	+	1N5404*	DO-27A	400 PRV, 3A	* .133	* .094	
1538363	DDI	1N5404-T	DO-201AD	400 V <sub>RRM</sub> , 3A	* .149	* .134	
36273	+	1N5408*	DO-27A	1000 PRV, 3A	.26	.22	.16
177949	+	1N5817	DO-204AL	20 PIV, 1A	* .12	* .09	
177957	+	1N5818	DO-204AL	30 PIV, 1A	* .07	* .056	
177965	+	1N5819	DO-204AL	40 PIV, 1A	* .10	* .075	
1538419	DDI	1N5819HW-7-F	SOD-123	40 V <sub>RRM</sub> , 1A (Schottky)	.25	.223	.167
177990	+	1N5822	DO-201AD	40 PIV, 3A	* .20	* .15	
1538435	DDI	1N5822-T	DO-201AD	40 V <sub>RRM</sub> , 3A (Schottky)	.74	.543	.40
618062	+	40CPQ060	TO-247AC	60 V <sub>RRM</sub> , 40A (Schottky)	2.65	1.80	1.35
886657	ON	MBR20100CTG	TO-220AB/3	100 @ 20A	1.01	.80	.66

\* 10 pcs. / \*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 19

\* AVT = Avago | BNS = Bourns | DDI = Diodes Incorporated | FSC = Fairchild | FSS = Freescale | INR = International Rectifier | ON = ON Semi | ST = ST Micro | TAT = Taitron | TEC = Teccor | VSH = Vishay | + Mfr. Varies

**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



## Bridge Rectifiers

QUANTITY SAVE \*Web Code: MBD

Part No.	*Mfr.	Product No.	Pkg. <sup>†</sup>	Rating	1	10	100
178001	◆	DF005M	DF	50 V <sub>RRM</sub> , 1A	\$.49	\$.39	(\$0.29)
103000	◆	DF01M	DF	100 V <sub>RRM</sub> , 1A	.30	.27	.21
103042	◆	DF02M	DF	200 V <sub>RRM</sub> , 1A	.35	.25	.19
102971	◆	DF04M	DF	400 V <sub>RRM</sub> , 1A	.29	.24	.18
103034	◆	DF06M	DF	600 V <sub>RRM</sub> , 1A	.30	.27	.19
256575	◆	DF08M	DF	800 V <sub>RRM</sub> , 1.5A	.34	.293	.236
103026	◆	DF10M	DF	1000 V <sub>RRM</sub> , 1A	.32	.25	.21
145429	◆	KBP02M	KBP	200 V <sub>RRM</sub> , 1.5A	.55	.45	.35
119562	◆	KBP04M	KBP	400 V <sub>RRM</sub> , 1.5A	.54	.487	.327
279494	◆	W005G	WOG	50 V <sub>RRM</sub> , 1.5A	.44	.36	.27
103018	◆	W02G	WOG	200 V <sub>RRM</sub> , 1.5A	.49	.39	.34
102980	◆	W04G	WOG	400 V <sub>RRM</sub> , 1.5A	.43	.40	.33
279515	◆	W10G	WOG	1000 V <sub>RRM</sub> , 1.5A	.49	.39	.29
178132	◆	W01M	WOM	100 V <sub>RRM</sub> , 1.5A	.49	.42	.35
178141	◆	W02M	WOM	200 V <sub>RRM</sub> , 1.5A	.45	.39	.32
178183	TAT	BR805D	BR8D	50 PIV, 2A	.55	.49	.367
178247	TAT	BR810D	BR8D	1000 PIV, 2A	.48	.43	.37
253260	◆	2KBP06M	KBP	600 V <sub>RRM</sub> , 2A	.44	.40	.30
299874	◆	GBPC1206	GBPC	600 V <sub>RRM</sub> , 12A	3.15	2.65	1.91
179477	◆	GBPC25-01	GBPC	100 V <sub>RRM</sub> , 25A	2.35	1.89	1.30

\* 10 pcs. in Diode/Rectifier cabinet kit, right  
<sup>†</sup> DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

## Bridge Rectifiers (Continued)

QUANTITY SAVE \*Web Code: MBD

Part No.	*Mfr.	Product No.	Pkg. <sup>†</sup>	Rating	1	10	100
179485	◆	GBPC25-02	GBPC	200 V <sub>RRM</sub> , 25A	\$2.39	\$1.94	(\$1.46)
1544704	VSH	GBPC2506-E4/1	GBPC	600 V <sub>RRM</sub> , 25A	3.29	2.62	2.25
178280	◆	MB254	MB35	400 V <sub>RRM</sub> , 25A	2.35	2.10	1.58
25574	◆	MDA990-3	179-01	200 PIV, 30A	3.99	3.45	2.59
25591	◆	MDA990-6	179-01	600 PIV, 30A	4.59	4.29	3.22
178431	◆	MB358	MB35	800 V <sub>RRM</sub> , 35A	3.59	3.29	2.47
178503	TAT	TB3510	TB35	1000 PIV, 35A	3.25	2.65	2.40

<sup>†</sup> DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

TAT = Taitron | VSH = Vishay | ◆ Manufacturer Varies

## Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers  
 Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 152 and 30 adhesive labels for drawers to identify parts in kit.



10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M  
 100 each: 1N914, 1N4004, 1N4148

SAVE 13%

Part No.	Description	Wt. (lbs.)	1	10
82587	420 pcs. (15 types) diode kit	5.0	\$42.95	\$38.95

# Optoisolators & Optocouplers

## Optoisolators

NEW MARKED IN FINE QUANTITY SAVE \*Web Code: CAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
671808	◆	4N25S	SOIC-6	NPN phototransistor output	\$.25	\$.21	\$.19
40985	◆	4N25	DIP-6	NPN phototransistor output	.28	.25	.22
41005	◆	4N26	DIP-6	NPN phototransistor output	.25	.22	.165
41013	◆	4N28	DIP-6	NPN phototransistor output	.25	.22	.16
41021	◆	4N32	DIP-6	NPN photodarlington output	.29	.22	.15
41030	◆	4N33	DIP-6	NPN photodarlington output	.29	.247	.21
41056	◆	4N35	DIP-6	NPN phototransistor output	.29	.24	.18
320418	LTO	CNY17-4	DIP-6	High BV <sub>ceo</sub> phototransistor	*.19	.15	
114083	◆	ISO203	DIP-16	High density NPN phototransistor	2.95	2.95	2.66
672245	◆	MOC205	SOIC-8	Monolithic phototransistor output	.65	.49	.29
320653	◆	PS2501-1	DIP-4	Single NPN phototransistor output	.35	.29	.25
320661	◆	PS2501-2	DIP-8	Dual NPN phototransistor output	.75	.59	.51
160338	◆	PS2501-4	DIP-16	Quad NPN phototransistor output	1.15	1.07	.92
320696	◆	PS2502-2	DIP-8	Dual NPN photodarlington output	1.42	1.16	1.05
160362	◆	PS2502-4	DIP-16	Quad NPN photodarlington output	1.75	1.61	1.21
320709	◆	PS2505-1	DIP-4	NPN phototransistor output	.42	.354	.298
320725	◆	PS2505-4	DIP-16	Quad NPN phototransistor output	2.05	1.74	1.53
320805	◆	PS2532-4	DIP-16	Quad hi collector to emitter voltage	2.35	2.25	2.09
26278	◆	MOC3010	DIP-6	Bilateral sw. non-zero crossing triac	.56	.49	.41
698912	FSC	MOC3010M	DIP-6	Random phase, triac driver output	.62	.47	.334
95020	◆	MOC3011	DIP-6	Random phase, triac driver output	.68	.52	.39
277780	◆	MOC3020	DIP-6	Bilateral sw. non-zero crossing triac	.55	.45	.338
95038	◆	MOC3021	DIP-6	Random phase, triac driver output	.67	.50	.38
1261018	LTO	MOC3023S	SOIC-6	Random phase, triac driver output	*.261	.225	
277819	◆	MOC3023	DIP-6	Random phase, triac driver output	.59	.454	.35
277835	◆	MOC3041	DIP-6	Zero-cross, triac driver output	.89	.75	.49
277843	◆	MOC3043	DIP-6	Zero-cross, triac driver output	.77	.65	.391
133874	◆	MOC3063	DIP-6	Zero-cross, triac driver output	.87	.75	.61
2006414	LTO	LTR-5986D	SIP-3	NPN phototransistor/detector	.25	.19	.15
2006406	LTO	LTV-8141S	SMD4	1-Ch. AC input darlington output	*.29	.25	

◆ Product requires 1-2 additional days to ship. Request 'ship partial' if you want other items to ship sooner (note separate shipping charges will apply). Minimum order quantity & prices are subject to change.

\* AVT = Avago Technology | CLA = Clare | FSC = Fairchild Semi | LTO = Lite On | OPT = Optek | SIE = Siemens | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com)/More and Enter Web Code Listed Above

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 161.



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