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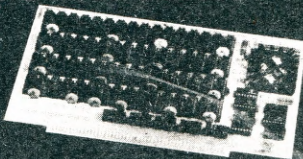
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THANK YOU FOR YOUR CONTINUED SUPPORT OF
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We wish to once again thank you for your patronage over the past year. Advanced Computer Products, Inc. recognized the need for a complete mail order distributor specializing in factory warranted, prime, full-specification, high technology IC's and semiconductor available to the consumer at a fair price. It is our belief that our new catalogue has the LOWEST prices yet available.

This year we initiated our same-day delivery policy. As of this writing we are pleased that we are now shipping 87% of our mail order the same day received.

This was also a year for us in developing sub systems and computer boards. Our LOGOS 18K Static Memory Module is recognized as the best 8K Memory Board in the marketplace. We have used this same engineering excellence to bring to the market the LOGOS 32, the first 32K Static RAM Board available. Both of these products have been offered to the home computer market at substantial savings consistent with our philosophy of offering state-of-the-art products at low prices.

Advanced Computer Products, Inc. also moved into our new 4000 sq. ft. facility near the Irvine Industrial Complex in Orange County, California. Our new warehouse has allowed us to inventory in volume thereby facilitating our ability to handle both small and large orders expeditiously.

We would like to thank you for your help in making Advanced Computer Products successful. We invite you to stop in and visit us if you've ever in the Orange County area and we look forward to serving your future electronic requirements.

Sincerely,



Dave Freeman

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★ Catalogue Pricing subject to change without notice.

We do reserve the right to substitute equivalent Manufacturers of the same part. If we should substitute and you are not satisfied you may return the product for full refund or credit whichever you desire.

Retail Pricing may differ from Catalogue Pricing.

MICROCOMPUTER COMPONENTS

MICROPROCESSORS

Z-80	8-Bit CPU (2.5 MHz.)	\$ 21.95
Z-80A	8-Bit CPU (4.0 MHz.)	29.95
F-8	8-Bit CPU (3850)	19.95
2650	8-Bit CPU	24.95
CD1802	8-Bit CMOS CPU	19.95
8080A	8-Bit CPU	14.95
8085	8-Bit CPU	29.95
8008-1	8-Bit CPU	14.95
4004	4 bit CPU	11.95
AM2901	4-Bit CPU	21.95
AM2901A	4-Bit CPU Hi-Speed	29.95
TMS 9900JL	16-Bit CPU	89.95
CP1600	16-Bit CPU	39.95
6502	8-Bit CPU	19.95
IM6100	12-Bit CPU	29.95
6800P	8-Bit CPU	19.95
6802	8 bit CPU	29.95

8080 SUPPORT DEVICES

8205/74S138	1 of 8 Binary decoder	2.95
8212	8-Bit I/O Port	3.25
8214	Priority Interrupt	7.95
8216	Bi-direct bus driver	3.25
8224	Clock Gen, Driver	3.95
8224-4	4MHz Driver	12.95
8226	Bus Driver	3.95
8228	System Controller	6.95
8238	System Controller	7.95
8251	Prog. Comm. I/O	11.50
8253	Prog. Interval Timer	27.95
8255	Prog. Periph. I/O	11.50
8257	Prog. DMA Control	27.95
8259	Prog. Interrupt Control	27.95
8279	Prog. Keyboard	19.95
3404	6-Bit Latch	3.95

6800 SUPPORT DEVICES

6810-1	128 x 8 RAM (350ns.)	4.95
6820P	PIA	7.95
6828P	Priority Interrupt Cont.	11.95
6834	512 x 8 EPROM (575ns.)	14.95
6834-1	512 x 8 EPROM (750ns.)	12.95
6850P	ACIA	8.25
6852P	Sync. Serial Adapter	9.95
6860P	Modem	14.50
6862P	2400 RPS Modulator	17.50
6880P	MPU Bi-dir. Bus	2.49
6871A	1.0 MHz Crystal Osc.	25.95
6831/11003	Proto ROM	30.00
6831/10224	Micro Assem. ROM	30.00
52350	USRT	9.95
MEC68MINII	Minibug 2	49.95
MEC68MINIII	Minibug 3	74.95

1802 SUPPORT CHIPS

CDP1802CD	8-Bit CPU	\$ 24.95
CDP1821SCD	1K x 1 RAM	15.95
CDP1822SCD	256 x 4 RAM	16.95
CDP1824CD	32 x 8 RAM	9.95
CDP1852CD	8-Bit I/O Port	10.95
CDP1856CD	I/O	8.95
CDP1857CD	I/O	8.95
CDP1861CD		12.95

Z80 SUPPORT DEVICES

3881	PIO	11.25
3882	CTC	11.25
3883		TBD
3884		TBD

2901 SUPPORT DEVICES

2902	Carry look ahead	3.95
2905	Bus Transceiver	9.75
2906	Bus Transceiver	9.75

2907	Bus Transceiver	9.75
2909	Microprogram Seq.	17.95
2911	Mini-Microprog. Seq.	9.75
2913	Interrupt Expander	7.95
2914	Vectored Int. Cont.	60.00
2915A	Bus Transceiver	10.95
2916A	Bus Transceiver	11.95
2917A	Bus Transceiver	9.95
29700	16 x 4 Fast RAM	5.95
29705	16 x 4 Two-Port RAM TS	18.95
29720	256 x 1 RAM OC	5.95
29721	256 x 1 RAM OC	5.95

F-8 SUPPORT DEVICES

3851	Program Storage Unit	14.95
3853	Static Memory Interface	14.95

DYNAMIC RAMS

		1-16	17 UP
TMS4060NL-2	4K x 1 300ns. (22 Pin)	\$ 4.50	\$ 4.25
TMS4050	4K x 1 300ns. (18 Pin)	4.50	4.25
MK4096-11	4K x 1 350ns. (16 Pin)	4.95	4.50
2104	(16 Pin)	4.50	4.25
2107B-4	4K x 1 270ns. (22 Pin)	4.00	3.75
4115	16K x 1 250ns. (16 Pin)	16.95	14.95
MK4116(416)	16K x 1 250ns. (16 Pin)	34.95	29.95
1103	1K x 1 300ns.	1.95	1.75
MK4008L	1K x 1 500ns.	2.95	2.75
upd 414	4K x 1 300ns.	5.25	5.10
MM5261	2K x 1	2.95	2.85
MM5262	2K x 1	2.95	2.85
MM5270	4K x 1	4.95	4.75
MM5280	4K x 1	5.95	5.75

STATIC RAMS

		1-24	25-99	100
21L02	1K x 1 450ns.	\$ 1.30	\$ 1.30	\$ 1.05
21L02	1K x 1 250ns.	1.95	1.80	1.50
2102	1K x 1 usec	1.25	1.15	1.10
2102-1	1K x 1 450ns.	1.50	1.40	1.29
91L02APC	1K x 1 450ns.	1.75	1.65	1.50
9102DPC	1K x 1 250ns.	2.25	2.15	2.00
91L11APC/21L11	256 x 4 450ns.	4.95	4.10	3.95
91L12APC/2L12	256 x 4 450ns.	4.95	4.10	3.95
9111APC/2111	256 x 4 450ns.	3.95	3.95	3.65
9112APC/2112	256 x 4 450ns.	3.00	2.80	2.69
91L01APC/21L01	256 x 4 450ns.	4.95	3.85	2.75
2101-1	256 x 4 450ns.	2.95	2.85	2.75
31L01	16 x 4 110ns.	2.50	2.35	2.00
1101A	256 x 1 1 usec.	1.49	1.29	1.10
3107	256 x 1 80ns.	3.95	3.70	3.25
4200A	4K x 1 250ns.	12.95	12.50	11.95
4804	1K x 4 450ns.	17.95	16.95	16.50
4402	4K x 1 250ns.	12.95	12.50	11.95
2114	1K x 4 650ns.	12.95	12.50	11.95
2114	1K x 4 450ns.	16.95	16.25	15.50
upd 410	4K x 1 250ns.	12.95	12.50	11.95
5101C-E	256 x 4 650ns.	11.95	11.25	10.25
74C89	16 x 4 275ns.	4.25	4.05	3.50
7489	16 x 4 60ns.	2.25	2.10	1.90
8599	16 x 4 50ns.	3.50	2.75	1.75
74 S 201	256 x 1 50ns.	4.50	4.30	4.25
74 S 189	256 x 1 50ns.	4.25	4.25	3.75

UART'S

AY51013A	30K Baud (+5, -12)	\$ 5.50
AY51014A/1612	30K Baud (5V to 14V)	8.95
AY51015/1863	30K Baud (5 Volt)	9.95
TR1602B	30K Baud (+5, -12)	3.95
TR1402B	20K Baud (+5, -12)	7.95
IM6402	200K Baud (5 Volts)	9.95
IM6403	200K Baud (10 Volts)	9.95
TMS6011	200K Baud (+5, -12)	6.95
S1883	30K Baud (+5, -12)	6.95

USRT'S

S2350P	500K Baud (5 Volt)	\$ 9.95
WD1671B	Astros (Rec/Trans)	24.95

CHARACTER GENERATORS

2513-001	5 x 7 ASCII Upper (5v)	9.95
2513-002	5 x 7 ASCII Lower (5v)	10.95
2513-002	ADM-3 Lower Case	14.95
MCM6571A	7 x 9 ASCII (down scan)	10.75
MCM6571	7 x 9 ASCII (up scan)	10.75
MCM6574	Character Gen.	14.50
NCM6575	Character Gen.	14.50

PROM'S BIPOLAR

MMI6330-1	32 x 8 (50ns.) OC	3.25
MMI6331-1	32 x 8 (50ns.) TS	3.25
MMI6300-1	256 x 4 (60ns.) OC	3.50
MMI6301-1	256 x 4 (60ns.) TS	3.50
MMI6305-1	512 x 4 (70ns.) OC	9.95
MMI6306-1	512 x 4 (70ns.) TS	6.95
MMI6340-1	512 x 8 (90ns.) OC	14.95
MMI6341-1	512 x 8 (90ns.) TS	14.95
MMI6353-1	1K x 4 TS	14.95
SIG 82S23	32 x 8 (50ns.) OC	5.00
SIG 82S123	32 x 8 (50ns.) TS	5.00
SIG 82S126	256 x 4 (60ns.) OC	5.25
SIG 82S129	256 x 4 (60ns.) TS	5.25
HPROMI-1024-5	256 x 4 (60ns.) TS	5.25

SHIFT REGISTERS

1402AN	Quad 256 bit dynamic	3.95
1403AN	Dual 512 bit dynamic	3.95
1404AN	1024 bit dynamic	4.95
1402AH	Quad 256 bit dynamic	4.95
1403AH	Dual 512 bit dynamic	4.95
1404AH	1024 bit dynamic	4.95
AM2533N	1024 bit static	6.95
AM2401N	2048 bit dynamic	10.95
MM500H	Dual 25 bit	1.95
MM5016H	512 bit	4.95
AM3347	Quad 80 bit	6.95
2518B	32 x 6 bit Static	3.95
TMS3002	50 x 2 bit static	2.95
TMS3112	36 x 6 bit static	3.95

FIFO

AM2812PC	8 x 32 FIFO	\$11.95
AM3341A	64 x 4	6.50
AM2841	64 x 4	11.95
WD1502	40 x 9	9.95
3351	FIFO	22.95

FLOPPY DISC CONTROLLER

1771B	WD Minisugart	\$24.95
1771B-01	WD Floppy Controller	38.95
upd 372D	NEC Floppy	55.00
Application Notes for above add		3.95

MAGNETIC CASSETTE CONTROLLER

upd 371D	NEC controller	\$49.95
Application Notes add		3.95

PROM'S MOS

1702A-6	256 x 8 (1.5 usec)	\$4.50; 10/37.50
1702A	256 x 8 (1 usec)	5.50
2708	1K x 8 (450ns.)	14.95
2708	1K x 6 (650ns.)	5.95
2716	1K (450ns.) 5V	44.95
5203AQ	256 x 8 (1 usec)	8.95
5204AQ	512 x 8 (750ns.)	12.95
6834	512 x 8 (575ns.)	14.95
6834-1	512 x 8 (750ns.)	12.95

KEYBOARD ENCODERS

AY32376	88 x 3 x 9 ASCII	\$13.95
AY33600	90 Key 4 Mode	13.95
HD0165	Encoder	9.95
63 Key	Unencoded Keyboard	34.95
19 Key	Unencoded Hex Pad	11.95
20 Key	Calculator Keyboard	1.49
80 Key	Microswitch ASCII II Keyboard	59.95

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34702 Harris	(FSC) Baud Rate Generator	\$14.95
	2.4576 Crystal	5.85
MC14411	Bit Rate Gen (14 diff.)	11.25
	14411 Crystal	4.95
WD1941	Dual Band Rate Gen.	9.95

COUNTERS

MK5007	Ctr/Display 7 seq & BCD	\$ 8.95
MK5009	Counter Time Base	11.95
ICM72081P1	Ctr/Display Driver	18.95
ICM72071P1	Ctr/Display Driver	12.95

STOPWATCH CIRCUITS

ICM72081P1	Counter Display Driver	\$18.95
ICM70451P1	Stop Watch Chip	22.95

CLOCK CHIPS

MM5309	6 Digit Clock	\$ 5.95
MM5311	24 Pin BCD 6 Digits	4.95
MM5313	28 Pin 6 Digits	4.95
MM5314	24 Pin 6 Digits	4.95
MM5316	40 Pin Alarm (F3817)	5.25
MM5375	Automobile Clock Chip	3.95
CT7001	Calendar Clock Chip	5.95

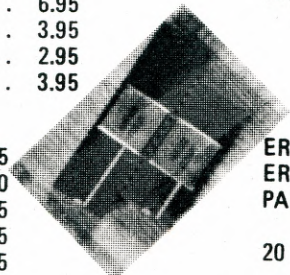
CALCULATOR CHIPS

CT5001	Calculator Chip	\$ 2.95
ER1422B & ER1432B	Calculator Set	2.95/set with data
	8 Digit Full Floating Pt. Credit Balance Chain Calculations Memory	
ER1532B	10/12 Digit calc w/memory	1.95w/data
ER1542B	8/12 Digit w/memory	1.95w/data
PANAPLEX	9 Digit Calculator Readout w/holder	.99
20 Key	Calculator Key Pad	1.49

2.01 MHz U1001	8500-1 2.01 MHz Crystal	1.95
	RF Modulator Module with Audio	8.95

SPECIALTY CHIPS

MM5320	TV Synch Gen.	\$ 7.95
MM5369	Prescaler	3.95
ICM7045IPI	Stopwatch Chip	22.95
CW300	Saw Function Gen.	1.50
DH0025CN	Dual Mos Clock Driver	1.75
DH0026CN	5 MHz Dual Mos Clock Driver	2.75
N8T20	Bi-directional one shot	3.49
N8T26	Quad Bus Driver	2.25
N8T97	Tri-State Hex Buffer	1.45
N8T98	Tri-State Hex Buffer	1.89
8130	10-Bit Comparator	2.95
8131	6-Bit Comparator	2.95
AY59100	Push Button Dialer	12.95
AY59200	Repertory Dialer	18.95
AY59400	Multifrequency Gen.	6.95
XR2265	Servo Control Chip	8.95



INTERFACE

1488	RS232 Driver		8T10	Buffer	4.25
1489	RS232 Receiver		8T13	Buffer	3.00
75450 thru			8T20	Buffer	3.75
75454	Peripheral Drivers . . . . .	.50	8T23	Buffer	2.90
75107	Dual Diff. line receiver	1.49	8T24	Buffer	2.90
75108	Dual Diff. line receiver	1.99	8T26	Buffer	2.25
75109	Dual Diff. line driver	1.99	8T28	Buffer	2.95
75110	Dual Diff. line receiver	1.99	8T97	Buffer	1.45
75150	Dual line driver	2.10	8T98	Buffer	1.89
75154	Quad line driver	2.20	8820	8820 Dual Line Driver	1.50
75491	MOS to LED segment driver . . . . .	.60	8830	Dual Diff. Driver	1.50
75492	MOS to LED Digit Driver . . . . .	.60	8831	Tri-state Line Driver	1.95
75493	MOS to LED segment driver . . . . .	.79	8832	Tri-state Line Driver	1.95
75494	MOS to LED digit driver . . . . .	.79	8833	Tri-state Line Driver	1.99
7520	Dual Core Sense Amp . . . . .	.99	8835	Tri-state Line Driver	1.99
7522	Dual Core Sense Amp	1.90	9614	Dual Line Driver	1.95
7523	Dual Core Sense Amp	1.90	9615	Dual Diff. Line Receiver	1.95
7524	Dual Core Sense Amp . . . . .	.89	9616	Triple EIA Line Driver	3.95
7525	Dual Core Sense Amp . . . . .	.89	9617	Triple EIA Line Receiver	3.95
75234	Dual Core Sense Amp	1.80	9620	Dual Diff. Line Receiver	3.95
8095	Buffer . . . . .	.75	9621	Dual Line Driver	3.95
8096	Buffer . . . . .	.75	9627	Diff. Driver RS232	3.95
8097	Buffer . . . . .	.75	9601	Retriggerable one shot . . . . .	.65
8098	Buffer . . . . .	.75	9602	Dual one shot	1.10
8T09	Buffer	1.75	96S02	Dual one shot	1.95
			96L02	Dual one shot	1.95

NATIONAL PART TYPES

AH0019CD	Dual DPST TTL/MOS Analog Switch	\$ 7.95
MH0025CH	Mos Clodk Driver	3.95
MH0025CN	Mos Clodk Driver	3.95
MH0026CH	Mos Clock Driver	3.95
MH0026CN	Mos Clock Driver	2.95
LH0001CH	Low Power Op Amp	42.95
LH0003CH	Wideband Amplifier	32.80
LH0004CH	Hi Voltage Op Amp	43.95
LH0024CH	Hi Speed Op Amp	21.00
LH0032CH	Hi Speed Fet Op Amp	26.95
LH0042CH	Low Cost Fet Op Amp	5.95
LH0062CH	Hi Speed Fet Op Amp	18.00
LH0063CK	Dynamic Fast Buffer	52.95
LH2101AD	Dual 108	69.95
LH24250CD	Dual 4250	15.95
LH2301AD	Dual 301	7.95
LH2311D	Dual 311	12.95
LM103-2.2	Low Current Diode 2.2V	9.95
LM395K	Power Transistor (TO-3)	7.95
LM325H	Dual Track. Reg. ±15V	3.95
DH3725CN	Quad NPN Core Driver	3.95
DH3724CN	Quad PNP Core Driver	5.95
NSD102	NPN Power TO-220 (45V, 1.5A)	.69
NSD103	NPN Power TO-220 (45V, 1.5A)	.79
NSD104	NPN Power TO-220 (80V, 1.0A)	.79
NSD106	NPN Power TO-220 (100V, 1.0A)	.89
NSD132	NPN Power TO-220 (250V, .1A)	.89
NSD134	NPN Power TO-220 (300V, .1A)	1.05
NSD135	NPN Power TO-220 (375V, .1A)	1.19
LX5600H	Temperature Transducer	5.50
LM320H15	Voltage Reg TO-5 (200ma)	4.95
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7409N	Quaduple 2-Input Positive-AND Gates w/Open-Collector Outputs	14 Dip	.25		
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7433N	Quaduple 2-Input Positive-NOR Buffers w/Open-Collector Outputs	14 Dip	.40		
7437N	Quaduple 2-Input Positive-NAND Buffers	14 Dip	.35		
7438N	Quaduple 2-Input Positive-NAND Buffers w/Open-Collector Outputs	14 Dip	.35		
7440N	Dual 4-Input Positive-NAND Buffers	14 Dip	.21		
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7442N	BCD to Decimal Decoder	16 Dip	.60		
7443N	Excess 3 to Decimal Decoder	16 Dip	.88		
7444N	Excess 3 Gray Code to Decimal Decoder	16 Dip	1.50		
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7447N	BCD-To-7 Segment Decoder/Driver	16 Dip	.80		
7448N	BCD-To-7 Segment Decoder/Driver	16 Dip	.99		
7450N	Dual 2-Wide 2-Input AND-OR-INVERT Gates (One Gate Expandable)	14 Dip	.26		
7451N	Dual 2-Wide 2-Input AND-OR-INVERT Gates	14 Dip	.26		
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7474N	Dual D-Type Positive-Edge-Triggered Flip-Flops w/Preset & Clear	14 Dip	.39		
7475N	Quaduple Bistable Latch	16 Dip	.69		
7476N	Dual J-K Flip-Flops w/Preset & Clear	16 Dip	.40		
7480N	Gated Full Adder	14 Dip	.65		
7482N	2-Bit Binary Full Adder	14 Dip	1.50		
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7486N	Quaduple 2-Input Exclusive-OR Gates	14 Dip	.40		
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7490N	Decode Counter	14 Dip	.52		
7491N	8-Bit Shift Register (Serial-In, Serial-Out)	14 Dip	1.05		
7492N	Divide-By-Twelve Counter (Divide-By-Two & Divide-By-Six)	14 Dip	.59		
7493N	4-Bit Binary Counter	14 Dip	.59		
7494N	4-Bit Shift Register (Serial & Parallel-In, Serial-Out)	16 Dip	.79		
7495N	4-Bit Right-Shift Left-Shift Parallel-Access Shift Register	14 Dip	.79		
7496N	5-Bit Shift Register	16 Dip	.79		
7497N	Binary Rate Multiplier	16 Dip	\$3.75		
74100N	Quad Bistable Latch	24 Dip	\$1.24		
74104N	J-K Flip-Flop	14 Dip	.95		
74105N	J-K Flip-Flop	14 Dip	.95		
74107N	Dual J-K Master-Slave Flip-Flops w/Clear	14 Dip	.40		
74109N	Dual J-K Positive-Edge-Triggered Flip-Flop w/Clear	16 Dip	.45		
74110	Dual JK FF		.80		
74116	Dual 4 bit Latch		1.95		
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74121N	Monostable Multivibrator	14 Dip	.50		
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74141N	BCD-To-Decimal Decoder/Driver with Blanking	16 Dip	.99		
74142N	4 Bit Latch BCD Driv.		3.75		
74143N	4 Bit Latch 7 Seg Led		3.75		
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74147N	10-Line to 4-Line Priority Encoder	16 Dip	1.75		
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74153N	Quad 4-Line to 1-Line Data Selector/Multiplexer	16 Dip	.98		
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74155N	Dual 2-Line to 4-Line Decoder/Demultiplexer	16 Dip	.95		
74156N	Dual 2-Line to 4-Line Decoder/Demultiplexer	16 Dip	.95		
74157N	Quaduple 2-Line to 1-Line Data Selector/Multiplexer	16 Dip	.95		
74158N	Quad 2 Data Sel.		1.65		
74159N	4-16 DEC/Demux		3.50		
74160N	Synchronous Decade Counter with Direct Clear	16 Dip	1.19		
74161N	Synchronous 4-Bit Counter with Direct Clear	16 Dip	1.19		
74162N	Fully Synchronous Decode Counter	16 Dip	1.19		
74163N	Fully Synchronous 4-Bit Counter	16 Dip	1.19		
74164N	8-Bit Parallel-Out Serial Shift Register	16 Dip	1.19		
74165N	Parallel-In Serial-Out 8-Bit Shift Register	14 Dip	1.19		
74166N	Parallel In, Serial Out, 8-Bit Shift Register	16 Dip	\$1.10		
74170N	4x4 Register File	16 Dip	2.00		
74172N	Register File	24 Dip	8.50		
74173N	Tri-State Quad D Flip-Flop	16 Dip	\$1.40		
74174N	Hex D-Type Flip-Flop with Clear	16 Dip	\$1.25		
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74181N	High-Speed Arithmetic Logic Unit/Function Generator	24 Dip	1.90		
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74194N	4-Bit Bidirectional Universal Shift Register	16 Dip	1.10		
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74197N	Presetable 4-Bit Binary Counter 50 MHz	14 Dip	1.10		
74198N	Parallel-In, Parallel-Out 8-Bit Shift Register	24 Dip	\$1.45		
74199N	Parallel-In, Parallel-Out 8-Bit Shift Register	24 Dip	1.59		
74200N	256 bit RAM		6.95		
74251N	Tri-State 8-Line Data Selector Multiplexer	16 Dip	\$1.45		
74273N	D Type FF		1.95		
74279N	Quaduple S-R Latch	16 Dip	\$1.10		
74283N	A bit Binary		2.20		
74284N	TS 4 bit MUX		4.95		
74285N	TS 4 bit MUX		4.95		
74290N	4 bit Bin. Ctr.		1.25		
74365N	Tri-State Hex Buffer (8095N)	16 Dip	.75		
74366N	Tri-State Hex Inverter (8096)	16 Dip	.75		
74367N	Tri-State Hex Buffer (8097)	16 Dip	.75		
74368N	Tri-State Hex Inverter (8098)	16 Dip	.75		
74393N	Dual 4 bit Bin Ctr.	16 Dip	1.75		
8093N	Quaduple Bus Buffer Gates with Three-State Outputs (74125N)	14 Dip	.49		
8094N	Quaduple Bus Buffer Gates with Three-State Outputs (74126N)	14 Dip	.49		
8095N	Tri-State Hex Buffer (74365N)	16 Dip	.75		
8096N	Tri-State Hex Inverter (74366N)	16 Dip	.75		
8097N	Tri-State Hex Buffer (74367N)	16 Dip	.75		
8098N	Tri-State Hex Inverter (74368N)	16 Dip	.75		
75150N	Dual Line Driver	8mDip	\$1.70		
75450N	Dual Peripheral Driver	14 Dip	.50		
75451N	Dual Peripheral Driver	8mDip	.50		
75452N	Dual Peripheral Driver	8mDip	.50		
75453N	Dual Peripheral Driver	8mDip	.50		
75454N	Dual Peripheral Driver	8mDip	.50		
75491N	Quad Segment Driver MOS-to-LED	14 Dip	.60		
75492N	Hex Digit Driver MOS-to-LED	14 Dip	.60		
75493N	Quad LED Segment Driver	16 Dip	.79		
75494N	Hex Digit Driver	16 Dip	.79		

DTL	MC852P/SN15830P	.29
MC830P/SN15830P	.16	MC853P/SN15830P .39
MC832P/SN15830P	.16	MC856P/SN15830P .39
MC833P/SN15830P	.16	MC857P/SN15830P .39
MC836P/SN15830P	.16	MC858P/SN15830P .16
MC837P/SN15830P	.29	MC861P/SN15830P .39
MC838P/SN15830P	.39	MC862P/SN15830P .19
MC839P/SN15830P	.29	MC863P/SN15830P .39
MC840P/SN15830P	.29	950N .89
MC844P/SN15830P	.16	951N .89
MC845P/SN15830P	.19	1800N .39
MC846P/SN15830P	.19	1802N .79
MC848P/SN15830P	.39	1804N .79
MC849P/SN15830P	.39	1805N .79
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74LS03	.28	74LS161	1.19
74LS04	.28	74LS162	1.19
74LS05	.28	74LS163	1.19
74LS08	.39	74LS164	1.19
74LS09	.39	74LS165	1.19
74LS10	.28	74LS166	1.89
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74LS13	.47	74LS170	1.99
74LS14	1.02	74LS173	1.34
74LS15	.39	74LS174	1.05
74LS20	.26	74LS175	1.05
74LS21	.38	74LS181	3.25
74LS22	.38	74LS189	5.75
74LS26	.39	74LS190	1.79
74LS27	.39	74LS191	1.79
74LS28	.39	74LS192	1.95
74LS30	.26	74LS193	1.95
74LS32	.33	74LS195	.89
74LS37	.45	74LS196	1.85
74LS38	.45	74LS197	1.85
74LS40	.26	74LS221	1.90
74LS42	.66	74LS240	2.80
74LS47	.79	74LS241	2.80
74LS48	.79	74LS242	2.80
74LS51	.26	74LS243	2.50
74LS52	.35	74LS244	2.50
74LS54	.35	74LS247	1.68
74LS55	.35	74LS248	1.29
74LS60	.35	74LS249	1.69
74LS73	.45	74LS251	1.79
74LS74	.45	74LS253	1.59
74LS75	.68	74LS257	1.59
74LS76	.45	74LS258	1.59
74LS78	.65	74LS259	3.95
74LS83AN	.89	74LS260	.49
74LS85	1.69	74LS266	.39
74LS86	.40	74LS273	2.25
74LS90	.57	74LS279	.79
74LS92	.57	74LS283	1.49
74LS93	.57	74LS289	5.45
74LS95	1.39	74LS290	1.29
74LS96	1.79	74LS293	.99
74LS107	.39	74LS295	2.00
74LS109	.45	74LS298	2.00
74LS112	.49	74LS324	2.49
74LS113	.49	74LS352	1.65
74LS114	.55	74LS353	1.85
74LS122	.55	74LS363	.69
74LS123	1.49	74LS365	.67
74LS124	1.69	74LS366	.67
74LS125	.69	74LS367	.67
74LS126	.69	74LS368	.67
74LS132	.80	74LS373	2.75
74LS136	.39	74LS374	2.75
74LS138	.99	74LS386	.49
74LS139	.99	74LS390	2.90
74LS151	.79	74LS393	3.75
74LS153	.79	74LS395	2.25
74LS154	2.49	74LS670	2.35
74LS155	1.19	81LS95	.75
74LS156	1.19		

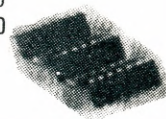
81LS96	.75
81LS97	.75
81LS98	.75

74S00 SCHOTTKY TTL

74S00	.40
74S02	.45
74S03	.45
74S04	.55
74S05	.45
74S08	.55
74S09	.52
74S10	.45
74S11	.35
74S12	.55
74S15	.95
74S20	.48
74S22	.48
74S30	.48
74S32	.68
74S37	.99
74S38	.99
74S40	.45
74S50	.48
74S51	.68
74S64	.39
74S65	.48
74S74	.99
74S85	4.75
74S86	1.05
74S107	.72
74S112	1.12
74S113	1.12
74S114	1.12
74S124	2.25
74S132	2.25
74S133	.55
74S134	.95
74S135	1.95
74S138	2.45
74S139	2.45
74S140	.65
74S151	2.75
74S153	2.75
74S157	2.70
74S158	2.70
74S160	3.75
74S163	3.75
74S168	4.25
74S169	4.25
74S174	4.50
74S175	3.75
74S181	9.50
74S182	2.75
74S189	4.25
74S194	3.25
74S195	2.99
74S200	4.50
74S201	4.50
74S240	2.80
74S241	2.80
74S242	2.80
74S243	2.80
74S244	2.80
74S251	2.49
74S257	2.49
74S258	2.49
74S260	.60

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74S281	10.25
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74S289	4.25
74S374	3.95
74S387	8.25

74H103	.89
74H106	.89
74H108	1.29
74H183	1.80

**74L00 LOW POWER TTL**

74L00	.22
74L02	.33
74L03	.33
74L04	.35
74L10	.29
74L20	.29
74L30	.29
74L42	1.29
74L47	1.99
74L51	.24
74L52	.29
74L54	.55
74L55	.55
74L73	.89
74L74	.59
74L75	.59
74L85	1.49
74L86	.60
74L90	1.49
74L93	1.29
74L95	1.29
74L98	1.49
74L121	.80
74L122	.79
74L123	.79
74L154	2.59
74L157	1.05
74L164	1.19
74L165	1.89
74L192	1.70
74L193	1.70

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SN5400	.95
SN5402	1.25
SN5403	.95
SN5404	1.25
SN5405	1.25
SN5408	.95
SN5410	.95
SN5413	1.49
SN5420	.95
SN5421	1.25
SN5425	1.25
SN5432	.95
SN5437	1.35
SN5442	2.25
SN5451	.95
SN5454	.95
SN5470	1.25
SN5472	1.25
SN5483	4.75
SN5486	3.95
SN5492	2.25
SN54107	2.25
SN54109	1.95
SN54121	2.10
SN54123	2.49
SN54125	2.10
SN54141	3.95
SN54150	2.95
SN54151	2.49
SN54153	2.49
SN54164	2.95
SN54173	2.95
SN54175	2.95
SN54193	2.95
SN54283	2.95
SN54298	4.95

74H00 HIGH SPEED TTL

74H00	.25
74H01	.28
74H04	.28
74H05	.28
74H08	.39
74H10	.29
74H11	.29
74H20	.29
74H21	.29
74H22	.49
74H26	.49
74H40	.29
74H50	.29
74H51	.40
74H52	.40
74H53	.29
74H54	.29
74H55	.29
74H62	.39
74H74	.55
74H76	.95
74H72	.49
74H101	.89
74H102	.89

MECL 10000 HIGH SPEED ECL

MC10101J	1.79
MC10102J	1.39
MC10105J	1.39
MC10106J	1.39
MC10107J	1.29
MC10109J	1.29
MC10110J	1.29
MC10111J	1.29
MC10112J	1.29
MC10115J	1.29
MC10124J	1.69
MC10125J	1.69
MC10131J	1.49
MC10161J	1.69
MC10162J	1.69
MC10174J	1.69

DISPLAY DRIVERS

7441	BCD to Decimal Decoder Nixie	.75
7446	BCD to 7 Seg. Decoder Dr.	1.05
7447	BCD to 7 Seg. Decoder Dr.	.85
7448	BCD to 7 Seg. Decoder Dr.	.95
8844	7 Digit LED Driver (50ma)	1.50
8864	9 Digit LED Driver, Lo Bat Ind	1.50
8865	8 Digit LED Driver	.90
8880	Hi Voltage 7 Seg. Dec/Dr.	2.10
8895	4 Seg. LED Dr. (17Ma/Seg)	1.50
9368	7 Seg. Hex decoder CC	2.00
74141	BCD to Decimal Decoder Dr	1.15
75491	MOS to 4 Seg. Driver	.60
75492	MOS to Hex Digit Driver	.60
75493	Quad LED Seg. Driver	.60
75494	Hex Digit Driver	.85

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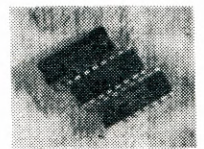
N8T13A	Dual Line Driver	2.49
8T20	Bidirection one shot	3.49
N8T23A	Dual Line Driver	2.90
N8T24A	Triple Line Receiver	2.90
N8T26A	Tristate Quad Bus Transceiver	2.75
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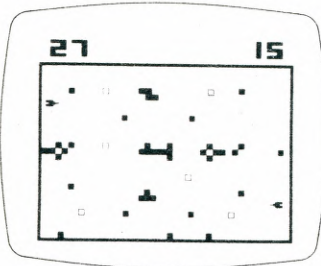
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LM709CH	Op Amp	.40	LM3911N	Temperature Controller (8 Pin)	1.25			
LM710CH	Voltage Comparator	.60	LM4024N	MC4024P Dual VCO	2.65			
LM710N	Voltage Comparator	.75	LM4044N	MC4044P Freq. Phase Det	2.90			
LM711CH	Dual Comparator	.39	LM4250CH	Programmable Op Amp	1.79			
LM711CN	Dual Comparator	.39	LM4250CN	Programmable Op Amp	2.00			
LM723CH	Voltage Regulator	.55	LM4558N	MC4558P Wideband 741	.75			
LM723CN	Voltage Regulator	.55	LM5556N	Dual Timer (555)	1.69			
LM725CH	Instrumentation Op Amp	2.50	LM5558N	Dual Comparator Op Amp	1.69			
LM725CN	Instrumentation Op Amp	3.00						
LM733CH	Differential Video Amp	.69	LM105H	Hi-rel Pos. Volt. Reg.	1.49			
LM733CN	Differential Video Amp	1.00	LM304H	Negative regulator	1.29			
			LM305H	Positive regulator	.99			

RCA LINEAR SERIES

CA3013	Band Amp Discriminator	2.29
CA3023	Low Power Video Amp	2.99
CA3035	Wide Band Amplifier Array	2.99
CA3039	Diode Array	1.65
CA3046	Transistor Array	1.25
CA3059	Zero Voltage Switch	2.90
CA3060	OTA Array	3.10
CA3080	Operational Transconductance Amp.	.99
CA3081	Common Emitter NPN Array	1.95
CA3082	Common Collector NPN Array	1.95
CA3083	Transistor Array NPN	1.95
CA3086	Transistor Array NPN	.99
CA3089	FM IF System	3.49
CA3130	Super CMOS Op Amp	1.29
CA3140	Op Amp	1.19
CA3401	Quad Amp (LM 3900N)	.49
CA3600	COS/MOS Transistor Array	3.95

PACKAGE CODES

N-Mini 8pin



N-Dip 14pin



T-T0 220



K-T03



H-T05



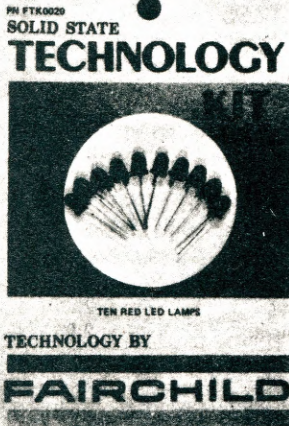
VOLTAGE REGULATORS

NEGATIVE	PRICE	CURRENT	POSITIVE	PRICE
		5 Amps	78H05KC 5 volts	8.49
LM345K 5 volts	9.95	3 Amps	LM323K 5 volts	5.75
LM320K - 5,6,8,9,12,15,18,24 (TO3)	1.65	1.5	LM317K Adj. 1.2 - 37v	4.95
LM320T - 5,6,8,9,12,15,18,24 (TO220)	1.25	Amps	LM340K - 5,6,8,12,15,18,24 (TO 3)	1.55
LM79xx: 5,6,8,9,12,15,18,24 (TO220)	1.25		LM340T - 5,6,8,12,15,18,24 (TO220)	1.25
		1.0 Amp	LM309K 5v (TO-3)	1.25
			UA78xx: 5,6,8,12,15,18,24 (TO220)	1.25
		200ma	LM309H 5 volts (TO5)	.95
		150ma	LM723H Adj. 2-37v (TO5)	.55
			LM723N Adj. 2-37v (14p DIP)	.55
79Lxx: 3,5,12,15,18,24 (TO92)	.69	100ma	LM78Lxx: 5,8,12,15,18,24 (TO92)	.69
LM304H Adj. -40 -0.0 v (TO5)	1.29	25ma	LM305/376N Adj. 4.5-40v (8p DIP)	1.50

SOLID STATE TECHNOLOGY KIT

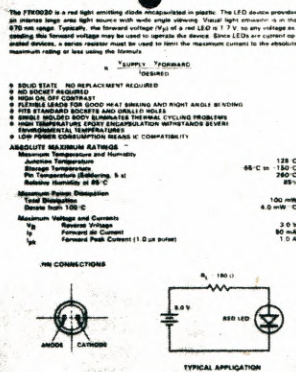
- FOR THE EXPERIMENTER WITH TASTE FOR "STATE OF THE ART" PRODUCTS
- COMPLETE SPECIFICATIONS ARE PRINTED ON THE BACK OF EACH TECHNOLOGY KIT

FTK0020



CARD FRONT

FTK0020



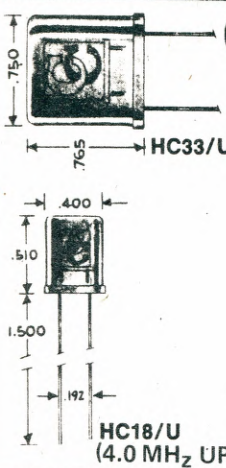
CARD BACK

FTK0106



CARD FRONT

DIGITS		PHOTO ARRAYS	
FTK0001	0.5" High Common Cathode Digit	FTK0040	9-Element Tape Reader Array
FTK0002	0.5" High Common Anode Digit	FTK0041	12-Element Card Reader Array
FTK0003	.357" High Common Cathode Digit	FTK0042	Reflective Opto Coupler
FTK0004	0.8" High Common Cathode Digit		
FTK0005	0.8" High Common Anode Digit		
0.8" HIGH DISPLAY ARRAYS		COUPLERS	
FTK0010	12 Hour, 3 1/2 Digit Clock Display	FTK0050	3 General Purpose Opto Couplers
FTK0011	24 Hour, 4 Digit Clock Display	FTK0051	Darlington Opto Coupler
LED LAMPS		MOS CLOCK CIRCUITS	
FTK0020	10 Red LED Lamps	FTK0400	Digital Clock/Calendar Circuit (FCM7001)
FTK0021	5 Mixed Colored LED Lamps	FTK0401	Digital Clock/Calendar with BCD Outputs (FCM7002)
FTK0022	10 LED Mounting Clips	FTK0402	Direct Drive Digital Clock Circuit with AC Output (FCM3817A)
FTK0023	5 Three Piece LED Mounting Adapters	FTK0403	Direct Drive Digital Clock Circuit with DC Output (FCM3817D)
PHOTO TRANSISTORS		FTK0405	Direct Drive Digital Clock/Calendar Circuit (FCM7015)
FTK0030	5 Flat Lens Photo Transistors		
FTK0031	5 Round Lens Photo Transistors		
FTK0032	3 Flat Lens Photo Darlington		
FTK0033	3 Round Lens Photo Darlington		
		KITS	
		FTK0106	Automobile Clock Kit



Crystals

Microprocessor Timebases TV Game

Frequency	Application	Price
1.0MHz	6800/S6860	\$ 5.85
1.8432	MC14411	4.95
2.0MHz	G-8/TV Games	5.85
2.01MHz	TV Games	2.95
2.097152MHz	MM5378/79 Auto	5.85
2.4576MHz	34702 Bit Rate Gen	5.85
3.579545MHz	MM5369 (TV Color)	1.50
4.0MHz	4004/4040	4.95
4.194304MHz	8038	5.95
4.91520MHz	Std. CLK Freq.	5.95
5.0MHz	Several MPU's	4.95

5.0688	COM5016	4.95
5.7143MHz	PACE	5.95
6.0MHz	Misc.	4.95
6.144	Intel 8085	4.95
6.5536	ICM7045	4.95
10.0MHz	Several MPU's	4.95
13.0MHz	Misc.	4.95
14.31818	Misc.	4.95
18.0MHz	8080/8008/8224	4.95
18.432MHz	8080/8008/8224	5.95
20.0MHz	Several MPU's	4.95
22.1184MHz	8080A	5.95
27.0MHz	8080A	5.95
36.0MHz	8080A	5.95
48.0MHz	TIM9904	5.95
100KC	Misc.	12.95

CRYSTALS

MA1003 12 VDC automotive/instrument clock module

\$17.95

6 PIN CONNECTOR ADD \$1.49



general description

The MA1003 12 VDC Automotive/Instrument Clock Module combines the MM5377 monolithic MOS/LSI clock circuit, a 4-digit 0.3" green vacuum fluorescent display, a 2.097 MHz crystal and supporting components to form a complete digital clock for 12 VDC applications. The module is fully protected against automotive transients and battery reversal conditions with time-keeping maintained down to 9 VDC. Automatic display brightness control logic blanks the display with ignition off, reduces brightness to 33% with park or head lamps on and follows the dash lamp dimming control setting. The display features leading zero blanking and has a blinking colon activity indicator. The bright green display color is filterable to various shades in the green, blue-green, blue and yellow color range. Time setting is accomplished by closing hours-advance and minutes-advance switches, these switches are disabled when the display is blanked to prevent tampering. Interconnections are simplified through use of a 6-pin edge connector. Display may be activated with ignition off or park (head) lights off by closing display switch, allowing minimum power consumption in portable applications.

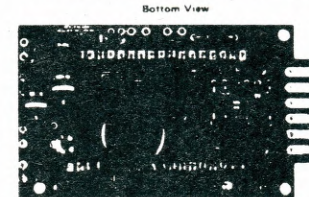
- Bright 0.3" green display
- Internal crystal timebase
- Protected against automotive voltage transients and reversals
- Timekeeping maintained to 9 VDC
- Automatic display brightness control logic
- Display color filterable to blue, blue-green, green and yellow
- Complete, just add switches and lens
- Convenient time setting controls at a 1 Hz rate with no roll-over
- Compact size, built-in connector (optional)
- Low standby power consumption
- Lockout of time setting when display is "OFF"

applications

- In dash auto/clocks
- After market auto/recreational vehicle clocks
- Aircraft-marine clocks
- 12 VDC operated instruments
- Portable/battery powered instruments

features

- Ideal for automotive applications
- Operates from 12 VDC supply



MA1002 LED display digital electronic clock module

\$10.95



general description

The MA1002 Series Electronic Clock Modules combine a monolithic MOS LSI integrated clock circuit, 4 digit 0.5" LED display, power supply and other associated discrete components on a single printed circuit board to form a complete electronic clock movement. The user need add only a transformer and switches to construct a pretested digital clock for application in clock radios, alarm or instrument panel clocks. Timekeeping may be from 50 or 60 Hz inputs and 12 and 24 hour display formats may be chosen. Direct (non-multiplexed) LED drive eliminates RF interference. Time setting is made easy through use of "Fast" and "Slow" scanning controls.

- Alarm clock and clock radio versions
- 12 or 24 hour display format
- 50 or 60 Hz operation
- Power failure indication
- Brightness control capability
- "Sleep" and "snooze" timers
- Alarm "on" and PM indicators
- Direct drive - no RFI
- Fast and slow set controls
- Low cost, extremely compact design

applications

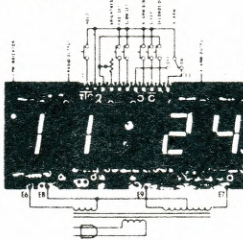
- Clock radio timers
- Alarm clocks
- Desk clocks
- TV stereo timers
- Instrument panel clocks

Features include alarm "on" and "PM" indicators, blinking colon, "sleep" and "snooze" timers and variable brightness control capability. Power failure is indicated by flashing the display at a 1 Hz rate.

features

- Bright 4 digit 0.5" LED display
- Complete - add only transformer and switches

block diagram



MA1010 CLOCK MODULES

LED display digital electronic clock module

0.84" High Digits



Actual Size: 1.75 x 3.75

- MA1010A: 12 Hour Display assembled and tested module only **\$13.95**
- MA1010A SET: MA1010A Module 102P2 transformer & 7 switches **\$17.45**
- MA1010C: 24 Hour Display assembled and tested module only **\$13.95**
- MA1010C SET: MA1010C Module 102P2 transformer & 7 switches **\$17.45**

HARDWARE

Part No.	Description	Price	Prices
25614	2-56x1/4 Machine Screw-Zinc Plated	.99/C	7.20/M
25612	2-56x1/2 Machine Screw-Zinc Plated	.99/C	7.65/M
44014	4-40x1/4 Machine Screw-Zinc Plated	.55/C	3.60/M
44012	4-40x1/2 Machine Screw-Zinc Plated	.60/C	4.05/M
63214	6-32x1/4 Machine Screw-Zinc Plated	.65/C	4.40/M
63212	6-32x1/2 Machine Screw-Zinc Plated	.75/C	4.85/M
83238	8-32x3/8 Machine Screw-Zinc Plated	.90/C	5.85/M
83258	8-32x5/8 Machine Screw-Zinc Plated	.99/C	7.00/M
256HN	2-56 Hex Nut - Zinc Plated	.55/C	3.60/M
440HN	4-40 Hex Nut - Zinc Plated	.55/C	3.75/M
632HN	6-32 Hex Nut - Zinc Plated	.60/C	4.00/M
832HN	8-32 Hex Nut - Zinc Plated	.60/C	4.15/M
2LW	No. 2 Internal Tooth Lock Washer-Zinc Plated	.85/C	5.75/M
4LW	No. 4 Internal Tooth Lock Washer-Zinc Plated	.45/C	3.00/M
6LW	No. 6 Internal Tooth Lock Washer-Zinc Plated	.45/C	3.00/M
8LW	No. 8 Internal Tooth Lock Washer-Zinc Plated	.45/C	3.00/M

BATTERY HOLDERS,

Catalog Number	Description	Price
1-AA	Aluminum Battery Holder for One Size AA Cell	.26
2-AA	Aluminum Battery Holders for Two Size AA Cells	.42
1-C	Aluminum Battery Holder for One Size C Cell	.35
2-C	Aluminum Battery Holder for Two Size C Cells	.42
1-D	Aluminum Battery Holder for One Size D Cell	.35
2-D	Aluminum Battery Holder for Two Size D Cells	.42

FSC 8024 \$4.95
4 digit .8" Display

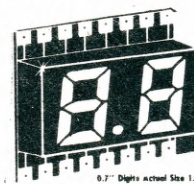


DIRECT DRIVE from 5387, 3817 or 1998A Clock Chips

DISPLAYS

DL704	CC	RED	.300	1.25
DL707	CA	RED	.300	1.25
FND359	CC	RED	.300	1.25
FND357	CA	RED	.300	1.25
FND500	CC	RED	.500	1.35
FND507	CA	RED	.500	1.35
FND503	CC	RED	.500	.99
FND510	CC	RED	.500	.99
FND800	CA	RED	.800	2.49
FND807	CA	RED	.800	2.49
BOWMAR "9" Digit Bubble			.110	.99
FSC8024 4digit	CC	RED	.800	4.95
TIL305		RED	5x7Array	4.95
TIL306	RED	7seg	w/logic	8.95
TIL308	RED	7seg	w/logic	8.95
TIL309	RED	7seg	w/logic	7.95
TIL311	RED	7seg	w/logic	9.25
HP5082-7340	RED	7seg	Hex display	15.95
NSN373	RED	CC	.300	2.49
NSN374	RED	CA	.300	2.49
NSN583	RED	CC	.500	2.99
NSN504	RED	CA	.500	2.99
NSN783	RED	CC	.700	3.19
NSN784	RED	CA	.700	3.19

NEW!

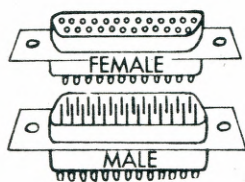


NSN 783

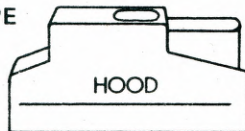
ONLY \$3.19 Plus the Models Listed

CONNECTORS

RS232 AND "D" SUB-MINIATURE CONNECTORS



SOLDER TYPE
P = MALE TYPE
S = FEMALE TYPE



No. Pins	P/N	1 - 9	10 Up	Hood Price
9	DE-9P	2.25	2.10	1.25
9	DE-9S	2.75	2.60	
15	DA-15P	3.20	3.05	1.50
15	DA-15S	3.45	3.30	
25	DB-25P	3.25	3.15	1.50
25	DB-25S	3.75	3.49	
37	DE-37P	4.95	4.75	1.50
37	DE-37S	5.25	4.95	1.50
50	DD-50P	5.95	5.75	
50	DD-50S	6.25	5.95	1.65

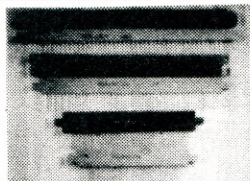
Screw Lock Assembly \$1.25

RS232 SPECIAL

DB25P
DB25S
plus Hood
only \$6.50

EDGE CARD CONNECTORS

S/T = SOLDER TAIL
S/E = SOLDER EYELET
W/W = WIRE WRAP
All Types are GOLD



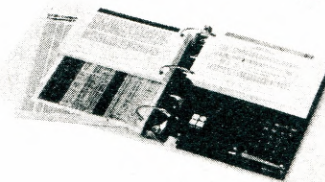
No. Pins	Type	Application	Price
6 pins; 8 single	S/E	NSC Clock Modules (MA1002 Series)	\$ 1.49
10 pins; 1 single	S/T	Misc.	1.29
20 pins / Dual 10	S/T	Like Viking 2VH10/ 1JVS	1.29
10 pins / Dual 10	W/W	Misc.	1.29
25 pins / Single 25	S/E	Misc.	1.95
30 pins / Dual 15	S/T	Misc.	1.95
30 pins / Dual 15	W/W	Misc.	1.95
44 pin / Dual 22	S/T	Kim I, Vector, etc.	2.95
44 pin / Dual 22	W/W	Kim I, Vector, etc.	2.95
56 pin / Dual 28	S/T	Misc. HW28D2	2.50
56 pin / Dual 28	W/W	Misc. HW28D2	2.95
72 pin / Dual 36	W/W	Misc. P/N HW36C0	3.95
80 pin / Dual 40	W/W	Misc.	4.95
86 Pin / Dual 43	W/W	AMI EVK Amph 261-10043-2	6.50
86 pin / Dual 43	W/W	Motorola Exorciser	6.50
86 pin / Dual 43	S/T	Motorola Exorciser	6.25
86 pin / Dual 43	S/E	Motorola Exorciser	5.50
98 pin / Dual 49	W/W	Misc. HW49D0	5.95
100 pin / Dual 50 pin	W/W	IMSAI (S-100)	4.75
100 pin / Dual 50 pin	W/W	ALTAIR (S-100)	5.95
100 pin / Dual 50 pin	S/T	IMSAI (S-100)	4.10
100 pin / Dual 50 pin	S/T	ALTAIR (S-100)	5.95

IASIS COMPUTER IN A BOOK

Iasis Inc., has combined an operational 8080 based Microcomputer system and a 250-page programming course into a standard three ring binder.

The ia7301 Computer in a Book was designed to serve initially as an instructional course for hobbyists and engineers who want to become proficient in programming microcomputer systems. Once the user has mastered programming the system he can expand and adapt the system to a wide variety of applications for industry, for business and for the home. Compatible expansion books and interface cards are available from Iasis to increase the systems memory from 1K bytes of RAM to 64K bytes and from 2 I/O ports to 256 ports. Other interface cards, soon to be available, will drive CRT displays, full keyboards and floppy disks.

Price \$499.00

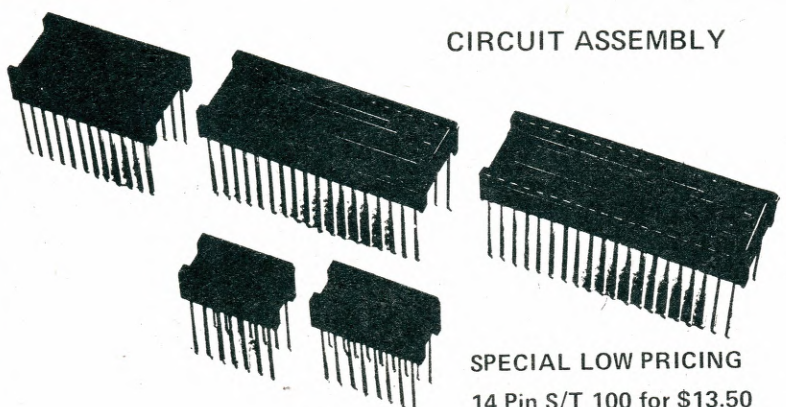


Of particular interest to the experimenter or hobbyist is the special cassette tape interface built into the Computer in a Book. The user can retain and store parts or entire programs by hooking the Computer in a Book up to most any home cassette tape recorder. The ia7301 Computer in a Book is fully assembled and tested. A hexadecimal conversion card and machine language coding pad are included in the binder. The ia7301 uses a dual voltage (+5V; +12V) supply; the -5V is generated internally. All interfaces are made through the 28 pin top edge connector.

SPECIAL WHILE SUPPLY LASTS

Used 10½" & 8½" Reels
of Computer Tape

\$2.95 ~~\$4.95~~/reel
SPECIFY REEL SIZE



CIRCUIT ASSEMBLY

SPECIAL LOW PRICING

14 Pin S/T 100 for \$13.50
16 Pin S/T 100 for 15.50

DIP SOCKETS

WIRE WRAP SOCKETS GOLD 3 LEVEL

	24	25-99	100-999
10	.45	.41	.37
14	.39	.37	.33
16	.43	.41	.33
18	.75	.68	.62
20	.90	.85	.67
22	.93	.85	.76
24	.99	.89	.79
28	1.35	1.19	.99
36	1.59	1.45	1.25
40	1.65	1.45	1.35

LO PROFILE-SOLDERTAIL - TIN

	1-24	25-99	100-999
(8) Pins	15	14	13
(14) Pins	20	19	16
(16) Pins	22	20	18
(18) Pins	27	27	26
(20) Pins	34	33	30
(22) Pins	35	35	34
(24) Pins	38	35	34
(28) Pins	45	43	42
(40) Pins	60	58	57

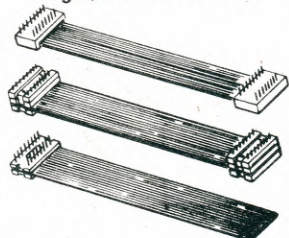
STANDARD, SOLDER, TIN

	1-24	25-99	100-999
(14)	.27	.25	.24
(16)	.30	.27	.25
(18)	.35	.32	.31
(24)	.45	.42	.40
(28)	.60	.52	.47
(40)	1.59	1.45	1.30

★ TERMINATED CABLES

3M Socket with Cable
14 Pin Single Ended
Reg. 1.50 Now .99

Circuit Assembly
16 Pin Double-Ended
with 5" Cable
Reg. \$3.00 Now 1.95

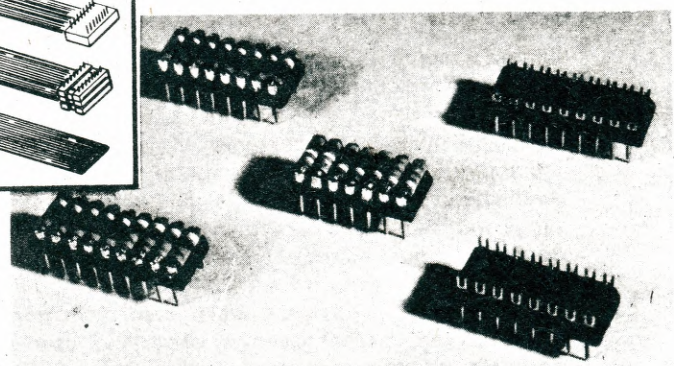


DIP PLUGS

	1-24	25-99	100-999
8 Pin	.45	.40	.32
14 Pin	.46	.42	.34
16 Pin	.49	.47	.38
18 Pin	.67	.57	.46
22 Pin	1.00	.93	.84
24 Pin	.79	.71	.66
28 Pin	1.09	.93	.81
36 Pin	1.19	1.03	.90
40 Pin	1.23	1.07	.94

COVERS FOR DIP PLUGS

14 Pin	.10	.09	.08
16 Pin	.10	.09	.08
18 Pin	.10	.09	.08

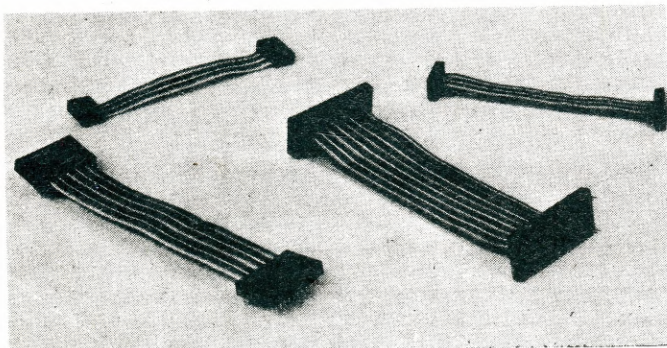


PHENOLIC TO-5 SOCKETS

3 Pin	TO-5	.55
4 Pin	TO-5	.65
6 Pin	TO-5	.90
8 Pin	TO-5	1.10
10 Pin	TO-5	1.40

PLASTIC TO-3 SOCKET

For LM 309K/340K/320K (TO-3) .29



NEW

**NOW YOU CAN
CUSTOMIZE YOUR OWN
CABLE TERMINATION**

NEW

COST EFFECTIVE PRICING

No. of Pins	SINGLE END					
	Length					
	6"	12"	18"	24"	36"	48"
14P	1.50	1.62	1.72	1.83	2.05	2.26
16P	1.60	1.76	1.87	1.99	2.21	2.44
24P	2.45	2.69	2.88	3.08	3.48	3.87
40P	4.08	4.95	5.71	6.75	6.71	N/A
	DOUBLE END					
14P	2.75	2.87	2.97	3.08	3.30	3.51
16P	3.00	3.13	3.24	3.36	3.58	3.81
24P	4.50	4.75	4.94	5.14	5.54	5.93
40P	6.93	7.52	8.11	8.70	9.88	N/A

CAPACITORS

ELECTROLYTIC CAPACITORS

AXIAL TYPE

Capacitance MDF	Working DC Voltage	1-9	10-99	100-249
.47	50	.15	.13	.10
1	16	.15	.13	.10
1	25	.15	.13	.10
1	50	.16	.14	.11
3.3	50	.14	.12	.09
4.7	16	.14	.12	.09
4.7	25	.15	.13	.10
4.7	50	.16	.14	.12
10	16	.14	.12	.09
10	25	.15	.13	.10
10	50	.16	.14	.12
22	16	.14	.12	.11
22	25	.17	.15	.12
22	50	.24	.20	.18
47	16	.17	.14	.13
47	25	.19	.17	.15
47	50	.25	.21	.19
100	16	.19	.15	.14
100	25	.24	.20	.18
100	50	.35	.30	.28
220	16	.24	.18	.17
220	25	.32	.28	.25
220	50	.45	.41	.38
470	16	.32	.28	.26
470	25	.33	.29	.27
470	50	.79	.71	.65
1000	16	.55	.50	.45
1000	25	.60	.55	.51
1000	16	.55	.50	.45
1000	25	.60	.55	.51
2200	16	.70	.62	.55

RADIAL TYPE

.47	25	.15	.13	.10
.47	50	.16	.14	.11
1	16	.15	.13	.10
1	25	.16	.14	.11
1	50	.16	.14	.11
4.7	16	.15	.13	.10
4.7	25	.15	.13	.10
4.7	50	.16	.14	.11
10	16	.14	.12	.09
10	25	.15	.13	.10
10	50	.16	.14	.12
47	50	.24	.21	.19
100	16	.19	.15	.14
100	25	.24	.20	.18
100	50	.35	.30	.28
220	16	.23	.17	.16
470	25	.31	.28	.26
1000	16	.54	.50	.46

CERAMIC DISC CAPACITORS

Value	Price	Value	Price
10pf	.12	470pf	.12
22pf	.12	.001mf	.12
47pf	.12	.0047	.12
68pf	.12	.01	.12
100pf	.12	.022	.12
220pf	.12	.033	.12
330pf	.12	.047	.12
		.1	.15

DIPPED (Solid) TANTALUM CAPACITORS

35 Volt ± 20%		25 Volt ± 20%	
.1mf	.28	2.2mf	.31
.15mf	.28	3.3mf	.31
.22mf	.28	4.7mf	.33
.33mf	.28	6.8mf	.36
.47mf	.28	10mf	.40
.68mf	.28	15mf	.63
1mf	.28	22mf 6V	.75
1.5mf	.30	33mf	.79

100 Volt ± 10% Polyester Film (Mylar) Capacitors

.001mf	.12
.0015	.12
.0022	.12
.0047mf	.12
.01mf	.12
.022mf	.13
.047mf	.21
.1mf	.27
.22mf	.33

RF FILTER SPECIAL

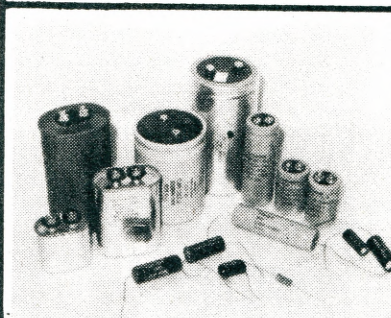
SPRAGUE 5JX118 5A 100V . . . \$1.49

Line Filter Module From
California Computer Corp.
Mfgd. by Genisco Technology

COMPLETE MODEL SOLD NEW
FOR 17.95 EACH

NOW WHILE SUPPLY LASTS
\$2.95

SUPERB
HIGH
POWER
LINE
FILTER!



CAPACITOR
CLOSEOUT
SPECIALS
(while supply lasts)

CAPACITORS

1.0 MFD	35V	tantalum	4/1.00
2.2 MFD	35V	tantalum	4/1.00
4.7 MFD	10V	tantalum	4/1.00
12 MFD	6V	tantalum	5/1.00
2500 MFD	75V	Sprague 36D Electrolytic (1"x4")	1.49
530 MFD	150V	Sprague 36D Electrolytic	1.29
4000 MFD	15V	Sprague 39D Electrolytic	.99
4600 MFD	25V	Sprague 39D Electrolytic	1.49
18000 MFD	25V	Sprague 36D CG Electrolytic (2"x4")	2.95
75000 MFD	10V	Mallory CG Electrolytic (2"x4")	2.95
260000 MFD	10V	Mallory CG Electrolytic (3"x5½")	4.50
150000 MFD	50V	Mallory CG Electrolytic (3"x4½")	2.95
2.5 MFD	410V	GE 45F821 Motor Start	.99
1 MFD	330V	Aerovox P128F2 Motor Start	.99

PLESSEY SEMICONDUCTORS

The number one manufacture of Low Cost Plastic Minidip IC's for radio communication. If you don't see it ask...

The only second source to Motorola and Fairchild for communication circuits

RADIO COMMUNICATION CIRCUITS

SL560C	RF Amplifier	1.95
SL1610C	RF Amplifier	1.95
SL1611C	IF Amplifier	1.95
SL1612C	Limiting wideband Amplifier	1.95
SL1613C	AGC generator	2.95
SL1621C	AM Det and AGC Amp + SSB demod	2.95
SL1623C		2.95
SL1626C	Microphone/Headphone Amplifier	1.95
SL1630C	Double Balanced Modulator	1.95
SL1640C	Receiver Mixer	6.95
SL1641C		7.50
SL1652C		5.95
SL1680C	Crystal Oscillator Circuit	5.95

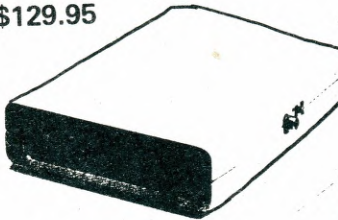
SP8600B	250MHz ± 4	6.95	SP8635B	600MHz ± 10 (BCD)	27.50
SP8601B	150MHz ± 4	4.25	SP8638B	500MHz ± 10 (BCD)	22.50
SP8602B	500MHz ± 2	16.00	SP8637B	400MHz ± 10 (BCD)	18.00
SP8603B	400MHz ± 2	14.50	SP8640B	200MHz ± 10/11 (ECL O/P)	6.20
SP8604B	300MHz ± 2	8.25	PS8641B	250MHz ± 10/11 (ECL O/P)	7.50
SP8607B	600MHz ± 2	17.00	SP8642B	300MHz ± 10/11 (ECL O/P)	12.50
SP8613B	700MHz ± 4	17.50	SP8643B	350MHz ± 10/11 (ECL O/P)	20.00
SP8614B	800MHz ± 4	18.00	SP8646B	200MHz ± 10/11 (TTL O/P)	6.50
SP8615B	900MHz ± 4	20.00	SP8647B	250MHz ± 10/11 (TTL O/P)	8.00
SP8616B	1GHz ± 4	22.00	SP8650B	600MHz ± 16	25.00
SP8620B	400MHz ± 5	12.50	SP8651B	500MHz ± 16	18.50
SP8621B	300MHz ± 5	8.50	SP8652B	400MHz ± 16	12.00
SP8622B	200MHz ± 5	6.50	CB Synthesizer Pair 8921/8922		12.95
SP8630B	600MHz ± 10	20.00	SP 4020		12.95
SP8631B	500MHz ± 10	12.00	SP8790		16.95
SP8632B	400MHz ± 10	10.00	SP8794		9.95
SP8634B	700MHz ± 10 (BCD)	35.00	SP8685		16.95

We stock the entire Plessey Semiconductor Line.

Application Manual for SL600 Circuits	1.95
Plessey Semiconductor Catalogue	3.95

FREQ. OUT.

\$129.95



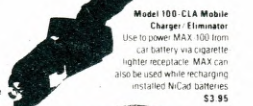
Model 100 MWA Mini Whip Antenna. Designed for use where direct coupling of MAX 100 to RF equipment is not practical or desirable. When installed MAX will display frequencies of nearby portable transmitters. \$3.95



Model 100 LCC Low-loss Tap Off. In-line unit designed to connect MAX 100 to equipment or RF line under test. Low loss feed through unit is rated 3 watts. \$14.95

Model 100 CC Carrying Case. Soft simulated leather case designed to carry and protect MAX 100. \$9.95

Model 100 CA1/Model 100 CA2 AC Charger/Eliminator for 8 Rechargeable NiCad AA Cells. Use 100 CA1 (shown) to power MAX 100 from 110-120VAC. 50-60Hz source. 100 CA2 from 220-240VAC. 50-60Hz. \$9.95 each



Model 100 CLA Mobile Charger/Eliminator. Use to power MAX 100 from car battery via cigarette lighter receptacle. MAX can also be used while recharging installed NiCad batteries. \$3.95



Model 100 IPC Inport Case With Clip Leads. Included with instrument. Additional units may be purchased. \$5.95

- *MAXimum frequency range—20Hz-100MHz
- *MAXimum data—8-digit continuous display
- *MAXimum visibility—big, bright, 0.6" LED display
- *MAXimum accuracy—crystal-controlled timebase
- *MAXimum operating ease—fully automatic, no controls to set
- *MAXimum range of applications—use for audio through ultrasonic through RF: AM, FM and digital
- *MAXimum portability—completely self-contained
- *MAXimum versatility—use with clip-lead cable, in-line tap, mini-whip antenna, etc.
- *MAXimum flexibility—choice of 4 power sources

JAPANESE TRANSISTORS

2SA 40	.59	2SA 816	.70	2SC 403	.59	2SC 871	.59	2SC 1448	1.10	2SD 358	1.30
2SA 70	1.10	2SA 839	2.15	2SC 430	1.10	2SC 897	2.85	2SC 1449	1.00	2SK 30	.90
2SA 101	.59	2SA 841	.59	2SC 454	.59	2SC 898	4.40	2SC 1451	1.60	2SD 382	1.40
2SA 102	.59	2SA 847	.59	2SC 458	.59	2SC 900	.59	2SC 1475	1.40	2SD 386	3.40
2SA 124	.59	2SA 850	.70	2SC 460	.59	2SC 929	.59	2SC 1478	1.40	2SD 388	4.50
2SA 342	.90	2SA 872A	.59	2SC 481	1.60	2SC 943	1.20	2SC 1509	1.10	2SD 427	2.80
2SA 353	.70	2SA 908	11.00	2SC 482	1.50	2SC 945	.59	2SC 1584	8.50	2SD 525	1.60
2SA 377	2.00	2SB 54	.59	2SC 485	1.60	2SC 959	1.50	2SC 1586	6.80	2SD 526	1.10
2SA 440	.90	2SB 55	1.10	2SC 486	1.00	2SC 971	1.00	2SC 1624	1.30	2SD 555A	6.80
2SA 483	3.00	2SB 75	.59	2SC 493	3.90	2SC 983	1.00	2SC 1626	1.10	2SD 610	1.90
2SA 489	1.60	2SB 186	.59	2SC 495	1.00	2SC 984	.90	2SC 1628	1.30		
2SA 495	.70	2SB 187	.59	2SC 497	1.60	2SC 1000BL	.59	2SC 1647	.59		
2SA 496	1.10	2SB 202	1.60	2SC 509	.90	2SC 1014	1.20	2SC 1669	1.80	2SK 19	1.60
2SA 497	1.60	2SB 220	.70	2SC 517	3.95	2SC 1017	1.40	2SC 1674	.59	2SK 30	1.10
2SA 509	.70	2SB 324	.70	2SC 535	.70	2SC 1018	1.20	2SC 1675	.59	2SK 34	1.10
2SA 525	2.50	2SB 337	1.60	2SC 536	.59	2SC 1030C	2.80	2SC 1678	2.25	2SK 40	.70
2SA 537	2.25	2SB 367	1.50	2SC 562	2.15	2SC 1047	.70	2SC 1684	.59	2SK 49	1.30
2SA 539	.70	2SB 368B	2.15	2SC 563	1.10	2SC 1060	4.40	2SC 1708	.59	2SK 55	1.30
2SA 561	.59	2SB 379	1.10	2SC 619	.59	2SC 1066	1.00	2SC 1728	2.00	2SK 58	1.30
2SA 562	.59	2SB 400	.59	2SC 620	.59	2SC 1111	3.40	2SC 1729	2.00	2SK 22	2.55
2SA 564A	.59	2SB 405	.70	2SC 632A	.70	2SC 1115	3.40	2SC 1775	.45	2SK 35	2.25
2SA 565	1.10	2SB 407	1.40	2SC 644	.59	2SC 1116	4.40	2SC 1816	4.25	2SK 39	2.25
2SA 566	3.40	2SB 415	.70	2SC 645	.70	2SC 1116A	4.90	2SC 1845	.70	2SK 40	2.25
2SA 606	1.90	2SB 434	1.20	2SC 650	1.30	2SC 1124	1.30	2SC 1908	.59	2SK 41	2.50
2SA 624	1.10	2SB 440	.70	2SC 668	.59	2SC 1182	1.10	2SC 1909	4.40	2SK 45	2.50
2SA 627	3.60	2SB 463	1.50	2SC 680	2.80	2SC 1186	.59	2SC 1951	1.10	2SK 45	2.50
2SA 628	.59	2SB 471	1.60	2SC 684	1.40	2SC 1189	1.40	2SC 1957	1.20	2SK 49	1.30
2SA 634	.90	2SB 472	2.80	2SC 693B	.59	2SC 1173	.90	2SC 1969	4.90	2SK 51	1.30
2SA 640	.59	2SB 474	1.20	2SC 696	1.85	2SC 1175	.90	2SC 1973	1.10	2SK 51	3.40
2SA 643	.70	2SB 492	1.00	2SC 710	1.90	2SC 1177	1.40	2SC 1975	4.40	2SK 52	3.70
2SA 659	.59	2SB 507	1.60	2SC 710	.59	2SC 1189	1.40	2SC 2028	.90	2SK 52	3.70
2SA 663	4.90	2SB 509	1.90	2SC 711	.59	2SC 1211D	.70	2SC 2029	3.90	2SK 55	1.30
2SA 666	.70	2SB 514	1.90	2SC 712	.59	2SC 1213	.70	2SC 2091	3.60	2SK 55	1.30
2SA 672	.70	2SB 526C	1.30	2SC 717	.59	2SC 1222	.45	2SC 2092	3.90	2SK 58	1.30
2SA 673	.70	2SB 527	1.90	2SC 730	4.40	2SC 1225	1.00	2SC 2098	3.90	2SK 58	1.30
2SA 683	.70	2SB 528D	1.80	2SC 732	.59	2SC 1237	4.25	2SC 2128	2.80	2SK 58	1.30
2SA 684	.70	2SB 536	1.60	2SC 733	.59	2SC 1239	3.50	2SC 2175	1.10	2SK 58	1.30
2SA 685	.70	2SB 539	4.80	2SC 734	.59	2SC 1279	.70	2SC 2179	1.60	2SK 58	1.30
2SA 695	.70	2SB 541	4.40	2SC 735	.59	2SC 1306	4.40	2SC 2181	1.60	2SK 58	1.30
2SA 697	.70	2SB 554	10.00	2SC 738	.59	2SC 1307	4.90	2SC 2183	3.00	2SK 58	1.30
2SA 706	1.60	2SB 551B	.70	2SC 756	2.80	2SC 1312	.59	2SC 2184	1.20	2SK 58	1.30
2SA 719	1.40	2SB 564	.90	2SC 763	.59	2SC 1313G	.59	2SC 2185	2.00	2SK 58	1.30
2SA 720	.70	2SB 595	1.80	2SC 773	.70	2SC 1317	.59	2SC 2186	2.80	2SK 58	1.30
2SA 721	.70	2SB 600A	7.00	2SC 774	1.60	2SC 1318	.59	2SC 2187	1.40	2SK 58	1.30
2SA 725	.59	2SC 183	.59	2SC 778	2.85	2SC 1327	.59	2SC 2188	2.50	2SK 58	1.30
2SA 726	.59	2SC 184	.59	2SC 778	3.60	2SC 1330	1.50	2SC 2189	2.80	2SK 58	1.30
2SA 733	.59	2SC 281	.59	2SC 783	2.80	2SC 1342	.59	2SC 2190	1.60	2SK 58	1.30
2SA 740	2.85	2SC 284	1.40	2SC 783R	2.85	2SC 1344	.59	2SC 2191	3.60	2SK 58	1.30
2SA 744	3.70	2SC 287	.90	2SC 783R	3.60	2SC 1345D	.59	2SC 2192	3.90	2SK 58	1.30
2SA 745R	4.40	2SC 287	.70	2SC 784	.59	2SC 1345D	.59	2SC 2193	3.90	2SK 58	1.30
2SA 747	5.80	2SC 289	.90	2SC 785	.70	2SC 1345D	.59	2SC 2194	3.90	2SK 58	1.30
2SA 750	.59	2SC 292	.59	2SC 785	1.00	2SC 1345D	.59	2SC 2195	3.90	2SK 58	1.30
2SA 756	3.40	2SC 292	.59	2SC 789	2.80	2SC 1345D	.59	2SC 2196	3.90	2SK 58	1.30
2SA 758	5.80	2SC 373	.59	2SC 799	3.60	2SC 1345D	.59	2SC 2197	3.90	2SK 58	1.30
2SA 774	.59	2SC 374	.59	2SC 815	.59	2SC 1345D	.59	2SC 2198	3.90	2SK 58	1.30
2SA 777	1.10	2SC 380	.59	2SC 828	.59	2SC 1345D	.59	2SC 2199	3.90	2SK 58	1.30
2SA 798	.70	2SC 381	.59	2SC 829	.59	2SC 1345D	.59	2SC 2200	3.90	2SK 58	1.30
2SA 814	1.90	2SC 382	.59	2SC 838	.59	2SC 1345D	.59	2SC 2201	3.90	2SK 58	1.30
		2SC 387	.59	2SC 839	.59	2SC 1345D	.59	2SC 2202	3.90	2SK 58	1.30
		2SC 394	.59	2SC 870	.59	2SC 1345D	.59	2SC 2203	3.90	2SK 58	1.30



Model TR II

.394" DIA.

10mm SIZE TRIMMERS

RESISTANCES (OHMS)	1-9	10-24	25-49	50-99	100-249
STD 100Ω	.35	.30	.25	.20	.16
1 MEG Ω					

STANDARD RESISTANCE VALUES

MODEL 100Ω 500Ω 1K
2K 5K 10K 20K 50K
100K 200K 1Meg

SPECIFY RESISTANCE

TRANSISTOR 2N NUMBERS AT PRESSTIME ALL IN STOCK

2N NUMBER

2N337	3.95
MJE340	.89
2N358A	2.95
2N396	.59
2N404	.59
DTS410	1.19
2N497	3.42
2N498	1.98
2N502	2.15
MJE521	.98
2N651	2.49
2N656	1.49
2N657	1.49
2N696	.49
2N698	.59
2N708	.39
2N720	1.05
2N735	2.49
2N736	2.49
2N743	.65
2N914	.39
2N917	.42
2N918	.39
2N930	.29
2N967	.39
2N1035	2.75

2N1131	.69
2N1132	.49
2N1191	.55
2N1253	2.38
2N1305	.70
2N1306	.75
2N1316	.85
2N1379	1.35
2N1478	.63
1671	1.50
2N1711	.44
2N1983	.82
2N1988	.89
1990	1.02
1997	1.05
1999	1.49
2010	2.25
2042	2.75
2060	3.95
2152	6.95
2160	1.25
2218A	.38
2219A	.28
2221A	.28
2222A	.25
2369A	.19
2410	.99
2430	.49
2484	.34
2N2646	1.00
2905A	.28
2906A	.28
2907A	.25
2916	6.95
2958	.99

GENERAL PURPOSE SWITCHING & AMPLIFIER TRANSISTORS												
TYPE	BV CEO Volts	I _C mA Max	HFE Min/ Max	V _{CE} (sat) Volts Max	I _C mA	CASE	Pkg	25-99	100-up			
NPN												
2N2218A	40	800	40/120	0.3	150	TO-5	.38	.25	.20			
2N2219A	40	800	100/300	0.3	150	TO-5	.28	.25	.20			
2N2221A	40	800	40/120	0.3	150	TO-18	.28	.25	.20			
2N2222A	40	800	100/300	0.3	150	TO-18	.25	.22	.17			
PNP												
2N2904A	60	600	40/120	0.4	150	TO-5	.28	.25	.20			
2N2905A	60	600	100/300	0.4	150	TO-5	.28	.25	.20			
2N2906A	60	600	40/120	0.4	150	TO-18	.28	.25	.20			
2N2907A	60	600	100/300	0.4	150	TO-18	.25	.22	.17			

GENERAL PURPOSE SATURATED SWITCHING TRANSISTORS														
*Typical $V_{EB} = 12$ Vdc														
Type	BV CEO Volts	Current I _C in mA	hFE min	V _{CE} (set) max Volts	I _C mA	f _T MHz	I _C mA	Switching Times @I _C /I _B ns max t _{on} t _{off}	ma	Comp.	Pkg.	10-99	100-up	
NPN														
2N4401	40	150	100	0.75	500	250	20	35	255	150/15	2N4403	.25	.20	.15
2N4400	40	150	50	0.75	500	200	20	35	255	150/15	2N4402	.25	.20	.15
2N3904	40	10	100	0.3	50	300	10	70	250	10/1.0	2N3906	.25	.20	.15
2N3903	40	10	50	0.3	50	250	10	70	225	10/1.0	2N3905	.25	.20	.15
2N4123	30	2.0	50	0.3	50	250	10	37*	136*	10/1.0	2N4125	.30	.25	.20
2N4124	25	2.0	120	0.3	50	300	10	37*	136*	10/1.0	2N4126	.30	.25	.20
PNP														
2N4403	40	150	100	0.75	500	200	20	35	255	150/15	2N3903	.25	.20	.20
2N4402	40	150	50	0.75	500	150	20	35	255	150/15	2N4400	.25	.20	.15
2N3906	40	10	100	0.4	50	250	10	70	300	10/1.0	2N3904	.25	.20	.15
2N3905	40	10	50	0.4	50	200	10	70	260	10/1.0	2N3903	.25	.20	.15
2N4125	30	2.0	50	0.4	50	200	10	43*	155*	10/1.0	2N4123	.30	.25	.20
MPS3636A	25	50	100	2.0	300	150	50	90	210	300/30		.30	.25	.20
MPS3638	25	50	30	1.0	300	100	50	90	210	300/30		.30	.25	.20
2N4126	25	2.0	120	0.4	50	250	10	43*	155*	10/1.0	2N4124	.30	.25	.20

UNIUNCTION TRANSISTORS.													
Number	Intrinsic Standoff Ratio Min	I _p Peak Point Emitter Cur uA (Max)	I _{EB20} Reverse Cur uA (Max)	I _v Valley Point Current mA (Min)	V _{R2B1} Interbase Voltage Volts	P _D Power Dissipation mW(Max)	Case	Pkg.	11-99	100-up			
2N4870	0.56	0.75	5.0	1.0	2.0	35	300	TO-92	.75	.60	.50		
2N4871	0.70	0.85	5.0	1.0	4.0	35	300	TO-92	.75	.60	.50		
2N2646	0.56	0.75	5.0	12.0	4.0	35	300	TO-18	1.00	.75	.65		
2N4852	0.70	0.85	2.0	0.1	4.0	35	300	TO-18	.97	.75	.60		
2N1671	0.47	0.62	25.0	12.0	8.0	30	450	TO-52	1.50	1.25	.90		
2N2160	0.47	0.80	25.0	12.0	8.0	30	450	TO-51	1.25	.99	.85		

2N NUMBER

3692	.29
3702	.32
3708	.28
3715	1.75
3724	.49
3725	.55
3766	1.10
3771	1.65
3772	1.95
3773	2.75
3903	.25
3904	.25
3905	.25
3906	.25
4093	1.49
4123	.30
4125	.30
4126	.30
4347	1.89
4400	.25
4401	.25
4402	.22
2N4403	.25
4870	.75
4852	.97
5134	.19
5139	.19
5400	.22
5401	.22
5459	.45
5638	.99
5642	19.50

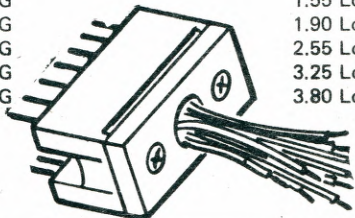
2N5771	.45
5772	.45
2N6027	.49
2N6099	1.25
MSD6100	.39
MPS6516	.54
6530	.43
6560	.45
6561	.44
6563	.49
MPSA13	.37
MPSA56	.59
MPSV01	.52
MPSV51	.55
TIP29	.89
TIP30	.89
TIP31	.89
TIP32	.89
TIP41	.99
TIP42	1.10
TIP61	.89
TIP62	.89
TIP140	1.75
TIP141	1.75
FPQ3725	1.95

**IF VOLUME PRICING IS REQUIRED
PLEASE CALL OUR SALES DESK AT (714) 558-8813**

Wire

**MIL-W-16878D HOOK-UP-TYPE B
PVC-STRANDED - 600 VOLT RATING**

AWG	COLORS	25 FT. MINIMUM	50 FT.	100 FT.	1000 FT.
	RED-GREEN				
	WHITE-BLACK				
30 AWG		\$1.25 Lot	\$1.65 Lot	\$2.25 C	\$15.00M
28 AWG		1.25 Lot	1.65 Lot	2.25 C	15.00M
26 AWG		1.45 Lot	1.90 Lot	2.50 C	17.00M
24 AWG		1.55 Lot	2.05 Lot	2.70 C	18.00M
22 AWG		1.90 Lot	2.55 Lot	3.40 C	23.00M
20 AWG		2.55 Lot	3.40 Lot	4.50 C	30.00M
18 AWG		3.25 Lot	4.30 Lot	5.70 C	38.00M
16 AWG		3.80 Lot	5.05 Lot	6.70 C	45.00M



**AUGUST \$3.95
14 Pin Test Plug
P/N 1P14-3T36-1**

THYRISTOR

Product Codes H - TO 5
I - Isotab (TO 220)
IP - Isolated (1/2")

P - Presitt (1/2" or 3/4")
SP - Stud Mount (1/2" or 3/4")
I - Sensitive Gate Triac
S - SCR
T - Triac

TRIACS

BRIDGES

			1-99	100-499	500-999
W02M	.75A	200V	.74	.46	.35
W005M	.75A	50V	.70	.43	.34
W06M	.75A	600V	.82	.52	.46
W08M	.75A	800V	.88	.56	.47
W10M	.75A	1000V	1.05	.65	.49
KBPC25-02	25A	200V	2.50	2.25	1.95
KBPC25-04	25A	400V	2.60	2.30	1.99
KBPC25-06	25A	600V	2.75	2.35	2.10

DIODES/RECTIFIERS/BRIDGES

ZENERS 400 mW

Type	Volts	Rating @ mA	Max Z Impedance	1-99	100-499	500-999	1Kup
IN746	3.3	20	28	4/1.00	.20	.165	.145
IN747	3.6	20	24	4/1.00	.20	.165	.145
IN748	3.9	20	23	4/1.00	.20	.165	.145
IN749	4.3	20	22	4/1.00	.20	.165	.145
IN750	4.7	20	19	4/1.00	.20	.165	.145
IN751	5.1	20	17	4/1.00	.20	.165	.145
IN752	5.6	20	11	4/1.00	.20	.165	.145
IN753	6.2	20	7	4/1.00	.20	.165	.145
IN754	6.8	20	5	4/1.00	.20	.165	.145
IN755	7.5	20	6	4/1.00	.20	.165	.145
IN756	8.2	20	8	4/1.00	.20	.165	.145
IN757	9.1	20	10	4/1.00	.20	.165	.145
IN758	10.0	20	17	4/1.00	.20	.165	.145
IN759	12.0	20	30	4/1.00	.20	.165	.145
IN821	6.2	7.5	15	.45	.31	.28	.25
IN823	6.2	7.5	15	.47	.33	.30	.26
IN825	6.2	7.5	15	.58	.39	.36	.34

ZENERS 500 mW

IN935	9.0	7.5	20	.88	82	59	45
IN937	9.0	7.5	20	.98	84	65	59
IN5232	5.6	20	11	4/1.00	23	19	16
IN5234	6.2	20	7	4/1.00	23	19	16
IN5235	6.8	20	5	4/1.00	23	19	16
IN5237	8.2	20	8	3/1.00	26	20	17
IN5245	15	8.5	16	3/1.00	26	20	17

DIODE SPECIALS - WHILE SUPPLY LASTS

IN2382 (PIV) 4.0K .15A 2/.99
 IN4531 (PIV) 75, 10ma 10/1.00
 IN2384 (PIV) 8.0K, .15A 2/.99
 IN5059 (PIV) 200V 1.0 4/1.00
 IN2979B 15V, 10 Watts 5% 1.25

★ GENERAL INSTRUMENTS

RECTIFIERS			1-99	100-499	500-99
IN4001	1 Amp 50V D0-41		13/1.00	.07	.06
IN4002	1 Amp 100V D0-41		13/1.00	.07	.06
IN4003	1 Amp 100V D0-41		13/1.00	.075	.065
IN4004	1 Amp 400V D0-41		12/1.00	.075	.065
IN4005	1 Amp 600V D0-41		10/1.00	.08	.07
IN4006	1 Amp 800V D0-41		8/1.00	.09	.08
IN4007	1 Amp 1K D0-41		6/1.00	.10	.09

\$1.00 per line item minimum

★ INTERSIL 6 CHANNEL MOS-FET SWITCH

Full Temperature Range
-55 to + 125°C

P/N G115M Regular Price \$15.75
 Our Price \$1.49 each
 (only 100 available)

Hutson P/N/Equiv.	Blocking Voltage	On State I (AMPS)	Gate Trigger I (MA)				Unit Price
			I	II	III	IV	
IPT230/Q2025	200	30	100	150	100	150	4.95
IPT430/Q4025	400	30	100	150	100	150	4.95
IT26/Q2006L5	200	6	50	80	50	80	1.89
IT46/Q4006L5	400	6	50	80	50	80	2.25
IT48/Q4008G5	400	8	50	80	50	80	1.45
IT215/Q2015L5	200	15	50	80	50	80	1.95
IT315/Q3015L5	300	15	50	80	50	80	3.10
IT410/Q4010L5	400	10	50	80	50	80	1.40
IT415/Q4015L5	400	15	50	80	50	80	2.70
IT610/Q6010L5	600	10	50	80	50	80	3.75
SPT025/MAC38-1	50	25	100	150	100	150	2.90
SPT46/Q4006H5	400	6	50	80	50	80	3.95
PT230	200	30	100	150	100	150	4.95

★ SCRS

SCRS	Voltage	Amps	Gate Trigger	Unit Price
HS04/MCR1906-1,2	50	4	1MA gate trigger	.99
IS08/S0508L	50	8	25 mA	1.50
IS020/S0516L	50	20	25 mA	1.89
IS28/S2006L	200	8	25 mA	1.49
IS68/S6006L	600	8	25 mA	1.89
SP5435/MCR3935-6	400	35	25 mA	5.25
S106Y1	30	4	200 uA	.49
S106A1	100	4	200 uA	.51
S106B1	200	4	200 uA	.55
S106D1	400	4	200 uA	.59
S107Y1	30	4	500 uA	.49
S107A1	100	4	500 uA	.51

Buy 100 take 10% discount
 Buy 1000 take 15% discount

ZENERS - 1 WATT

Type	Volts	Rating CmA	Max Z Impedance	1-99	100-499	500-999	1Kup
IN4733	5.1	49	7	4/100	22	19	.165
IN4734	5.6	45	5	4/100	22	19	.165
IN4735	6.2	41	2	4/100	22	19	.165
IN4736	6.8	37	3.5	4/100	22	19	.165
IN4737	7.5	34	4	4/100	22	19	.165
IN4738	8.2	31	4.5	4/100	22	19	.165
IN4739	9.1	28	5	4/100	22	19	.165
IN4740	10	25	7	4/100	22	19	.165
IN4741	11	23	8	4/100	22	19	.165
IN4742	12	21	9	4/100	22	19	.165
IN4743	13	19	10	4/100	22	19	.165
IN4744	15	17	14	4/100	22	19	.165
IN4745	16	15.5	16	4/100	22	19	.165
IN4746	18	14	20	4/100	22	19	.165
IN4747	20	12.5	22	4/100	22	19	.165
IN4748	22	11.5	23	4/100	22	19	.165
IN4749	24	10.5	25	4/100	22	19	.165
IN4750	27	9.5	35	4/100	22	19	.165

GENERAL PURPOSE/SWITCHING

TYPE	V	A	1-99	100-499	500-999	1Kup
IN3600	50	200mA	6/1.00	.16	.15	.14
IN4148	75	10mA	20/1.00	.048	.045	.042
IN4154	35	10mA	12/1.00	.06	.058	.055
IN914	100	10mA	15/1.00	.055	.05	.046
IN456	25	40mA	6/1.00	16	15	14
IN485	180	10mA	5/1.00	17	16	14

STUD RECTIFIERS

			1-99	100-499	500-99
1183R	35 Amp 50V		1.60	1.25	1.05
IN1183	35 Amp 50V		1.60	1.25	1.05
IN1184	35 Amp 100V		1.65	1.35	1.10
IN1185	35 Amp 150V		1.70	1.40	1.20



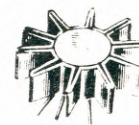
TO-220 25¢



AHAM and
WAKEFIELD



TO-3 \$1.50



TO-5
10/\$1.00

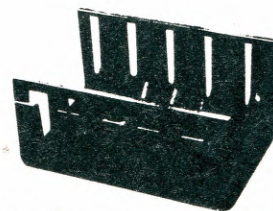
HEAT SINKS, COMPOUND & INSULATORS

CATALOG NUMBER

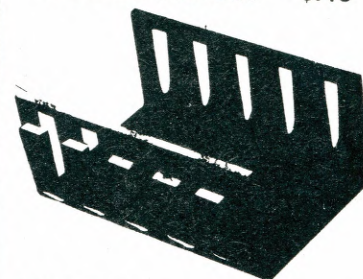
Description

PRICE

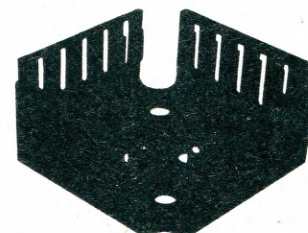
120-S	Thermal Joint Compound 4 gram plastic pack	2/1.00
980-2	Thermal Joint Compound 7 ounce plastic jar	6.95
170-DC	Thermally Conductive Electrically Insulating Wafer for TO-3	10/1.00
171-DC	Thermally Conductive Electrically Insulating Wafer for TO-3	10/1.00
172-DC	Thermally Conductive Electrically Insulating Wafer for TO-66	10/1.00
205-CB	Beryllium Copper Heat sink with Black Finish for TO-5	3/1.00
292-CB	Beryllium Copper Heat Sink with Black Finish for TO-92	6/1.00
295-1	Aluminum Heat Sink for TO-126 Transistors (e.g. L129 etc)	4/1.00
295-4	Aluminum Heat Sink for TO-202 Transistors (e.g. GE C106 Case)	4/1.00
631-3B	Black Anodized Aluminum Heat Sink for TO-3	3/1.00
631-66B	Black Anodized Aluminum Heat Sink for TO-66, TO-126 & TO-220	3/1.00
633-3B	Black Anodized Aluminum Heat Sink for TO-3	3/1.00
633-66B	Black Anodized Aluminum Heat Sink for TO-66, TO-126 & TO-220	3/1.00
672-3B	Black Anodized Aluminum Heat Sink for TO-3	.49
672-66B	Black Anodized Aluminum Heat Sink for TO-66	4/1.00
680-.5A	Black Anodized Aluminum Heat Sink for TO-3	1.75
690-3B	Black Anodized Aluminum Heat Sink for TO-3	.69
690-66B	Black Anodized Aluminum Heat Sink for TO-66	.69
690-220B	Black Anodized Aluminum Heat Sink for TO-220	.69
680-5-220	Dual TO-220 Heatsink	1.59
	Thermally TO-5 Transistor Pads	100/.99



MODEL 300-220 \$.49



MODEL 361 one hole .25
MODEL 365 two hole .25



MODEL 401-(2) 220 \$.95
MODEL 401-220



MODEL 423-T03 \$.95

PANAVISE® Tools

PANAVISE® CIRCUIT BOARD HOLDERS

FAST, EFFICIENT HANDLING,
OF BOARDS OF ANY SHAPE,
SIZE, OR THICKNESS TO 5/32"

ONE ARM HAS SPRING
TENSION FOR FAST
INSERTION AND REMOVAL
WITHOUT REPEATED
ADJUSTMENT

V SHAPE GRIP GROOVES
ON BOTH ARMS HOLD
BOARDS WITHOUT
DAMAGING THE CIRCUIT

SUPPORT UNIT
PERMITS MOVING
WORK LEFT OR
RIGHT

EACH ARM POSITIONS
AND LOCKS

1/4" (1.58 cm) STEM
FITS ALL BASES
ON PAGE 3

MODEL 315 CIRCUIT BOARD HOLDER ASSEMBLY

Used in combination with 300 series
bases

PANAVISE® holds circuit boards of any
shape, up to 8" (20.32 cm) wide*, in any
position - flat, vertically, at any angle.
It is easily rotated, tipped, tilted, elevated,
lowered, moved left or right, or turned
over. The exclusive PANAVISE® spring
tension arm permits a board to be inserted
and removed without continual adjust-
ment.

Both arms extend 8" (15.24 cm) from the
bar, with V shape grip grooves designed to
hold any board up to 1/2" (1.27 cm) thick

STOCK#	PRICE EACH
315	\$16.95

INTRODUCING ANOTHER
PRECISION PRODUCT FROM C.I.
MODEL 501

PANAPRESS

Although it weighs less than 6 pounds
and stands only 7 inches high, this
hand arbor press exerts pressure up to
a quarter-ton. PANAPRESS is ideal for
pressing bearings, sleeves, or collars,
forming and assembling small parts,
punching, riveting, broaching, staking
and dozens of other operations.

CONSTRUCTION: Arbor and table-plate
die-cast of high strength Zamak III. Oper-
ating mechanism of hardened and ground
steel. Ram is reversible.

Throat depth 2 1/4" (5.4 cm)
Vertical capacity 3 1/2" (8.9 cm)
Base dimensions 3 1/2" x 7" (8.9 x 17.8 cm)
Ram size 1 1/2" sq. x 6 1/2" (1.9 sq. x 15.1 cm)

STOCK# PRICE EACH
501 \$39.95

MODEL 303-1 VERTICAL JAW VISE HEAD

REPLACEABLE
NYLON JAWS

1/4" (1.58 cm) STEM
FITS ALL BASES
ON PAGE 3

Positioner bases
2 1/4" (6.35 cm) jaws open to 2 1/2" (5.72 cm)
with throat depth of 1 1/2" (3.83 cm).
Equipped with Nylon Jaws.

STOCK# PRICE EACH
303 \$10.00

MODEL 305 LOW PROFILE BASE

2 1/2" (6.4 cm) height allows working
close to the mounting surface. Straight
front permits mounting flush with edge of
bench or station. Three lugs are posi-
tioned for mounting on No. 310 surface
plate, 311 bench clamp, face plates No.
337, 338, 339, 340, or directly to bench,
wall or work station.

STRAIGHT FRONT
PERMITS FLUSH
EDGE MOUNT

STOCK# PRICE EACH
305 \$11.95

MODEL 300 STANDARD HEIGHT BASE

ONE
VARIABLE-
PRESSURE
KNOB
CONTROLS
TILT AND TURN

LOCKING UNIT
HOLDS ALL
1/4" (1.58 cm)
STEM VISE HEADS
AND
ATTACHMENTS

Three lugs are
positioned for
mounting on
No. 310 surface
plate, 311 bench
clamp, face plate
No. 337, 338, 339,
340, or directly on bench, wall or work
station.

STOCK# PRICE EACH
300 \$11.95

MODEL 311 BENCH CLAMP

Holes spaced for
mounting bases 300
and 305 (PAGE 3)

Designed, drilled and tapped for PANAVISE®
positioner bases 300 and 305, with
three zinc-plated flat head machine
screws supplied. With bright zinc plated
steel clamping screw and leveling button,
stainless steel tightening rod. Finished
Colburn hammertone/gray/green.

Height (overall) 6 1/2" (17.145 cm)
Holes spaced for mounting bases 300
and 305 (PAGE 3)
Throat depth 2 1/4" (5.4 cm)
Gripping range 0 to 3 1/2" (0 to 8.9 cm)
Shipping weight 2 1/2 lbs (1.13 kg)

STOCK# PRICE EACH
311 \$9.95

No. 343 NYLON JAWS for 303-1 vise

Type 66 Nylon, excellent electrical
insulation. Withstands intermittent heat
to 300° F. Continuous heat 200° F.

STOCK# PRICE EACH
343 \$1.99
344 1.99

No. 344 GROOVED NYLON JAWS

with horizontal V-groove designed to
gently hold small objects.

MODEL 308 MULTI-PURPOSE MOUNTING PLATE

Streamline design with non-marring
rubber feet. Use with 300 and 305 bases plus
315 circuit board holder. 5/8" socket
with set screw for universal applications.

STOCK# PRICE EACH
308 \$14.95

ROTATES
PIVOTS

MODEL 359 UNIVERSAL HOLDER

Convenient time-saving attachment for No.
366 vise head, designed for separating and
holding lead wires, small precision tools, or
light instruments at technician's fingertips.
Mounts onto stem of 366 vise head, with
removable clip, permitting positioning above,
alongside, or beneath.

STOCK# PRICE EACH
359 \$4.95

ROTATES 360°
TILT ACTION 180°

MODEL 366 WIDE OPENING VERTICAL VISE HEAD

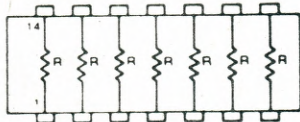
Grip range is 0" to 6 1/2" (16.51 cm). Fits
all 300 series bases. Jaw pad width 1 1/2"
(4.45 cm). Throat depth 2" (5.08 cm).
Reversible, replaceable pads are neoprene.
Steel parts machined to fine tolerances,
plated for durability.

STOCK# PRICE EACH
366 \$9.95

DIP RESISTOR NETWORKS

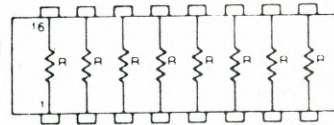
14 and 16 LEAD DUAL-IN-LINE CERMET RESISTOR NETWORKS

MODEL 1407



14 Pin-7 Resistors

MODEL 1608



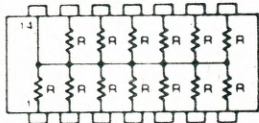
16 Pin-8 Resistors

\$1¹⁹ea.

APPLICATIONS: "Wired OR" pull-up; Power driver pull-up; Power gate pull-up; Line termination; Long-line impedance balancing; LED current limiting; ECL output pull-down resistors; TTL input pull-down.

APPLICATIONS: "Wired OR" pull-up; Power driver pull-up; Power gate pull-up; Line termination; Long-line impedance balancing; LED current limiting; ECL output pull-down resistors; TTL input pull-down.

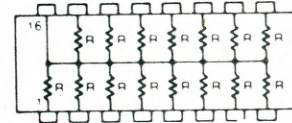
Specify resistance with Model Number



MODEL 1413

14 Pin-13 Resistors

22, 51, 68, 100, 150, 220, 240, 300, 330, 470, 560, 680, 1K, 1.5K, 2K, 2.2K, 3K, 3.3K, 4.7K, 5.1K, 5.6K, 6K, 6.8K, 10K, 15K, 22K, 33K, 47K, 56K, 68K, 100K, 150K, 220K.



16 Pin-15 Resistors

MODEL 1615

APPLICATIONS: MOS/ROM pull-up/pull-down; Open collector pull-up; "Wired OR" pull-up; Power driver pull-up; High speed parallel pull-up; TTL unused gate pull-up; TTL input pull-down; Digital pulse squaring.

APPLICATIONS: MOS/ROM pull-up/pull-down; Open collector pull-up; "Wired OR" pull-up; Power driver pull-up; High speed parallel pull-up; TTL unused gate pull-up; TTL input pull-down; Digital pulse squaring.

FUSES

AGC FUSES

BUSS FAST ACTING FUSES for PROTECTION OF INSTRUMENTS, etc.

1/4 x 1-1/4 inch. Glass tube. Formerly called 3AG.



AGC

Provide high speed action necessary to protect sensitive instruments or delicate apparatus.

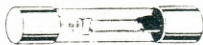
1/16 to 2 ampere sizes have straight through element. AGC fuses are listed by Underwriters' Laboratories, Inc. Test specifications — carry 110%, open at 135% in 1 hour or less. 1/500 to 2 ampere sizes also will open at 200% load in 5 seconds or less.

Voltage Symbol Amperes
250 or less AGC 1/4 - 1/2 - 3/4 - 1 - 2

\$1.50/BOX
(Box Includes Five of Same Type Fuse)

MDL FUSES

FUSETRON dual-element glass tube — slow blowing fuses
1/4 x 1-1/4 inch



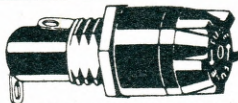
1/4 to 2 amp. MDL

These fuses avoid needless blows from starting currents or surges. They have a fuse link which operates only on very high overloads or short-circuits — they have a thermal cutout which functions on low overloads — the thermal cutout cannot operate quickly at any load, hence long time-lag is obtained. Yet protection is afforded against short-circuits or continued overloads.

MDL 0 to 28/10 amperes and MCX 0 to 7 amperes listed by Underwriters' Laboratories, Inc. MDL fuses have longer time-lag than MDX fuses.

Voltage Symbol Amperes
250 or less MDL 1/4 - 1/2 - 3/4 - 1 - 2

\$1.75 BOX
(Box Includes Five of Same Type Fuse)



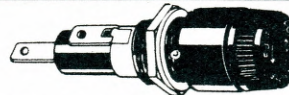
FUSE HOLDERS

These compact BUSS fuseholders require only 1/2 inch mounting holes — are only 1 25/32 inch long and extend just 1 inch behind front of panel.

One holder has a bayonet type knob for easy gripping and has a "breakaway" test prod hole.

The other has a screw type slotted knob recessed in holder body. This guards against anyone removing fuse without a screw-driver.

Type	Qty. - 1-19	20-49	50-99
HTA	.89 ea.	.65 ea.	.59 ea.



Normal current carrying capacity 30 amperes. Knob grips fuse tightly and pulls it from holder when knob is removed.

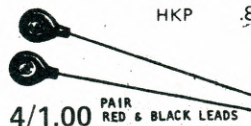
Recognized under the component program of Underwriters' Laboratories, Inc. for 15 amp., 250 volts or less. Carton quantity 10. Shipping Weight 3 1/4 lbs. per 100. To order with standard terminals — specify HKP.

Type	Qty. - 1-19	20-49	50-99
HKP	.89 ea.	.65 ea.	.59 ea.

BATTERY SNAPS

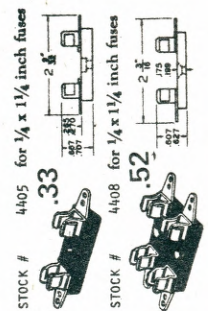


6/1.00
9 VOLT TRANSISTOR BATTERIES.



4/1.00 PAIR RED & BLACK LEADS

FUSE BLOCKS



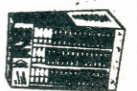
STOCK # 4405 for 1/4 x 1 1/4 inch fuses

STOCK # 4408 for 1/4 x 1 1/4 inch fuses

BUSS FUSE ASSORTMENT

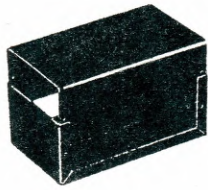
\$28.95

26 DIFFERENT SIZE FUSES, FOR A TOTAL OF 130 PIECES, PACKAGED IN A VISIBLE DISPLAY THAT AIDS SELECTION AND INVENTORY. PACKED 5 IN A BOX.



LMB Boxes, Chassis and Cabinets

JIFFY BOX CHASSIS



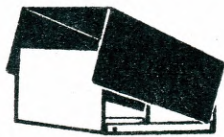
ALUMINUM
NO SCREWS

PUSH TOGETHER TO CLOSE AND CATCHES SNAP INTO PLACE. A SLIGHT PRESSURE OPENS BOX.

IDEAL WHERE QUICK ACCESS IS REQUIRED.

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
J-870	2 3/4"	2 1/8"	1 5/8"	\$1.05	\$.95
J-871	2 3/4"	2 1/8"	2 3/4"	1.17	1.05
J-872	3 1/4"	2 1/8"	1 1/8"	1.05	.95
J-873	3 1/2"	2 1/8"	1 5/8"	1.14	1.03
J-874	4"	2 1/8"	1 5/8"	1.17	1.05
J-875	4"	2 1/4"	2 1/4"	1.43	1.29
J-877	4 1/4"	2 1/4"	1 1/2"	1.17	1.05
J-878	5"	2 1/4"	2 1/4"	1.55	1.40
J-879	5"	4"	3"	2.23	2.01
J-880	5 1/4"	3"	2 1/8"	1.73	1.56
J-881	6"	5"	4"	3.00	2.70
J-882	7"	5"	3"	3.05	2.75
J-883	8"	6"	3 1/2"	3.80	3.42
J-884	10"	6"	3 1/2"	4.40	3.96

CROWN ROYAL (C-R) SERIES



ALUMINUM
*PAINTED ALUMINUM CASES
*DARK BLUE TOP, LIGHT BLUE BOTTOM

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
CR-211	2 1/4"	1 1/2"	1 3/8"	\$1.30	\$1.17
CR-221	2 1/4"	2 1/8"	1 3/4"	1.40	1.26
CR-234	2 3/4"	2 1/8"	2 1/8"	1.65	1.49
CR-275	2 3/4"	2 1/8"	2 5/8"	1.75	1.58
CR-321	3 1/4"	2 1/8"	1 5/8"	1.67	1.50
CR-332	3 3/4"	3"	2 1/8"	2.25	2.03
CR-345	3"	4"	5"	3.24	2.92
CR-400	4"	2"	2 3/4"	2.18	1.96
CR-421	4"	2 1/8"	1 5/8"	1.73	1.56
CR-422	4"	2 1/4"	2 1/4"	2.08	1.87
CR-425	4 1/4"	2 1/4"	1 1/4"	1.75	1.58
CR-442	4"	4"	2"	2.50	2.25
CR-522	5"	2 1/4"	2 1/4"	2.24	2.02
CR-531	5 1/2"	3"	1 1/4"	2.39	2.15
CR-532	5 1/4"	3"	2 1/8"	2.55	2.30
CR-621	6 1/2"	3 1/8"	1 5/8"	2.40	2.16
CR-632	6 1/4"	3 1/2"	2 1/8"	3.25	2.93
CR-643	6"	4"	3"	3.84	3.46
CR-645	5"	4"	5"	4.64	4.18
CR-753	7"	5"	3"	4.90	4.41
CR-800	8"	3"	2 3/4"	3.84	3.46
CR-852	8 1/2"	2 1/8"	1 5/8"	3.30	2.97
CR-864	8"	6"	4 1/2"	6.99	6.29

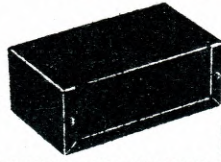
UTILITY BOX



ALUMINUM
CONSTRUCTION ALLOWS 25% MORE BUILDING SPACE.

STOCK NO.	LxWxH	PRICE EACH	
		1-9	10+
UC-970	4x4x2	\$2.90	\$2.61
UC-971	5x4x3	3.25	2.93
UC-972	6x5x4	4.24	3.82
UC-973	6x6x6	5.23	4.71

TITE-FIT BOX CHASSIS



ALUMINUM
*ALUMINUM CHASSIS USES 4 MACHINE SCREWS
*PAINTED OR UNPAINTED

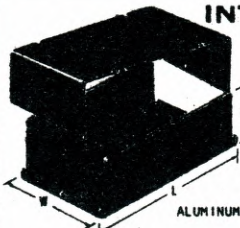
PAINTED TITE-FIT CHASSIS BOXES ARE GREY COLOR.

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
770-P	2 3/4"	2 1/8"	1 5/8"	\$1.25	\$1.13
771-P	2 3/4"	2 1/8"	2 3/4"	1.51	1.36
772-P	3 1/4"	2 1/8"	1 1/8"	1.25	1.13
773-P	3 1/2"	2 1/8"	1 5/8"	1.34	1.21
774-P	4"	2 1/8"	1 5/8"	1.45	1.31
775-P	4"	2 1/4"	2 1/4"	1.75	1.58
776-P	4"	2"	2 3/4"	1.80	1.62
777-P	4 1/4"	2 1/4"	1 1/2"	1.51	1.36
778-P	5"	2 1/4"	2 1/4"	1.89	1.70
779-P	5"	4"	3"	2.65	2.39
780-P	5 1/4"	3"	2 1/8"	2.15	1.94
781-P	6"	5"	4"	3.58	3.22
782-P	7"	5"	3"	3.83	3.45
783-P	8"	6"	3 1/2"	4.58	4.12
784-P	10"	6"	3 1/2"	5.18	4.66

UNPAINTED TITE-FIT BOX CHASSIS

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
TF-770	2 3/4"	2 1/8"	1 5/8"	\$1.05	\$.95
TF-771	2 3/4"	2 1/8"	2 3/4"	1.17	1.05
TF-772	3 1/4"	2 1/8"	1 1/8"	1.05	.95
TF-773	3 1/2"	2 1/8"	1 5/8"	1.14	1.03
TF-774	4"	2 1/8"	1 5/8"	1.17	1.05
TF-775	4"	2 1/4"	2 1/4"	1.43	1.29
TF-777	4 1/4"	2 1/4"	1 1/2"	1.17	1.05
TF-778	5"	2 1/4"	2 1/4"	1.55	1.40
TF-779	5"	4"	3"	2.23	2.01
TF-780	5 1/4"	3"	2 1/8"	1.73	1.56
TF-781	6"	5"	4"	3.00	2.70
TF-782	7"	5"	3"	3.05	2.75
TF-783	8"	6"	3 1/2"	3.80	3.42
TF-784	10"	6"	3 1/2"	4.40	3.96

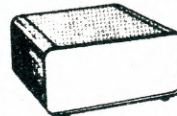
INTERLOCKING BOXES



BOXES OF INTERLOCKING CONSTRUCTION, ENGINEERED TO ELIMINATE HARD TO GET AT PLACES. SIMPLE AND SPEEDY TO ASSEMBLE, ONLY TWO SCREWS TO PUT IN PLACE. THE RUGGED STURDINESS WILL AMAZE YOU. PAINTED HAMMERTONE GRAY.

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
M00-P	2 1/4"	1 1/2"	1 3/8"	\$.94	\$.85
002-P	2 5/16"	2 1/8"	1 3/4"	1.07	.96
000-P	3 1/4"	2 1/8"	1 5/8"	1.33	1.20
00-P	4"	2 1/8"	1 5/8"	1.39	1.25
100-P	2 3/4"	2 1/8"	2 5/8"	1.56	1.40
101-P	4 1/4"	2 1/4"	1 1/4"	1.49	1.34
102-P	4"	2"	2 3/4"	1.85	1.67
103-P	2 3/4"	2 1/8"	2 1/8"	1.36	1.22
107-P	4"	2 1/4"	2 1/4"	1.80	1.62
108-P	5"	2 1/4"	2 1/4"	1.98	1.78
135-P	3 3/4"	3"	2 1/8"	1.98	1.78
136-P	5 1/4"	3"	2 1/8"	2.25	2.03
137-P	8"	3"	2 3/4"	3.43	3.09
138-P	6 1/4"	3 1/2"	2 1/8"	2.89	2.60
139-P	5 1/2"	3"	1 1/4"	2.14	1.73
140-P	4"	4"	5"	3.90	2.78
141-P	6"	4"	3"	3.50	3.15
142-P	6"	4"	5"	4.34	3.91
143-P	4"	4"	2"	2.33	2.10
144-P	10"	4"	2 1/2"	4.50	4.05
145-P	7"	5"	3"	4.50	4.05
146-P	8"	6"	4 1/2"	6.48	5.83

PERFORATED CABINETS



ALUMINUM
CONTOURED, PERFORATED, TOP REMOVABLE, CABINET.
GRAY WITH IVORY TRIM, RECESS FRONT PANEL DARK GRAY.

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
CO-1-P	13"	14 1/2"	6 1/2"	\$35.50	\$31.95
CO-2-P	10"	12"	6 1/2"	31.34	28.21

CHASSIS FOR ABOVE

STOCK NO.	FITS CABINET	HEIGHT	PRICE EACH	
			1-9	10+
CO1-C1.5	537-CO-1-P	1 1/2"	\$4.80	\$4.32
CO1-C2	537-CO-1-P	2"	5.10	4.59
CO2-C1.5	537-CO-2-P	1 1/2"	4.23	3.81
CO2-C2	537-CO-2-P	2"	4.48	4.03

PERFORATED CABINET



CONTOURED, PERFORATED THREE SIDES, BUILT-IN CHASSIS. BODY GRAY, FRONT PANEL DARK GRAY, RECESSED.

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
CO-3-P	7 1/4"	5 1/2"	3 1/8"	\$ 9.60	\$ 8.71
CO-4-P	8"	10"	5"	16.93	15.24
CO-5-P	8"	11"	7"	19.00	17.10
CO-6-P	9"	11"	6"	19.30	17.37
CO-7-P	11"	8"	7"	19.33	17.40



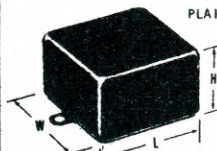
(M-E) SERIES

ALUMINUM
*CABINETS WITH BUILT-IN CHASSIS
*COVER IS BLACK AND HOODED
*BODY WHITE WITH RUBBER BUMPERS

STOCK NO.	HEIGHT	WIDTH	LENGTH	PRICE EACH	
				1-9	10+
ME-352-P	2"	5"	3 1/2"	\$ 6.58	\$ 5.92
ME-462-P	2 1/2"	6"	4"	7.33	6.60
ME-583-P	3"	8"	5"	9.68	8.71
ME-7114-P	4"	11"	7"	13.98	11.77

MINIATURE BOXES

FOR SUBMINIATURE ASSEMBLY



PLAIN
DRAWN STEEL SUBMINIATURE BOXES WITH MOUNTING EARS THAT CAN BE EASILY REMOVED IF DESIRED. COVERS ARE DESIGNED TO BE SOLDERED INTO PLACE DURING ASSEMBLY.

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
M01	1 1/8"	1"	15/16"	\$.57	\$.51
M10	1 3/4"	1 1/4"	7/8"	.57	.51
M11	2"	1 1/4"	3/4"	.57	.51
M12	2"	1 1/4"	1"	.57	.51
M15	2"	1 3/4"	1/2"	.57	.51
M16	2"	1 3/4"	3/4"	.57	.51
M17	2"	1 3/4"	1"	.57	.51
M018	2"	2"	1 1/4"	.57	.51

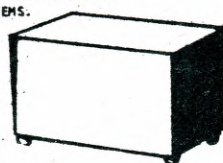
LIDS MATCH LID NUMBER TO BOX NUMBER.

STOCK NO.	LENGTH	WIDTH	HEIGHT	PRICE EACH	
				1-9	10+
M01-L	1 1/8"	1"	15/16"	.24	.22
M10-L	1 3/4"	1 1/4"	7/8"	.24	.22
M11-L	2"	1 1/4"	3/4"	.25	.23
M12-L	2"	1 1/4"	1"	.25	.23
M15-L	2"	1 3/4"	1/2"	.25	.23
M16-L	2"	1 3/4"	3/4"	.25	.23
M17-L	2"	1 3/4"	1"	.25	.23
M018-L	2"	2"	1 1/4"	.26	.23

COLOR-STYLED FOOTED CABINET

ALUMINUM
IDEAL FOR COLOR-CODING INSTRUMENTS AND MULTI-BOX SYSTEMS.

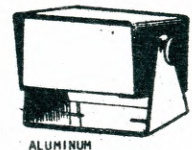
STOCK NO.	COVER	FACE	LENGTH	WIDTH	HEIGHT	PRICE EACH	
						1-9	10+
275	IVORY	IVORY	2 3/4"	3"	4"	\$4.39	\$3.95
2754	GOLD	GOLD	2 3/4"	4"	4"	4.50	4.05
342	GREEN	GREEN	3"	4 1/4"	2 3/8"	4.39	3.95
442	RED	RED	4"	4 1/2"	2 5/8"	4.74	4.27
442RG	RED	GOLD	4"	4 1/2"	2 5/8"	5.00	4.50
442RB	RED	BLACK	4"	4 1/2"	2 5/8"	5.00	4.50
453	BLUE	BLUE	4"	5"	3"	5.09	4.58
453BG	BLUE	GOLD	4"	5"	3"	5.39	4.85
463BG	GOLD	BEIGE	4"	6"	3"	5.74	5.17
463	BEIGE	BEIGE	4"	6"	3"	5.48	4.93
564	LT. BLUE	LT. BLUE	5"	6"	4"	6.09	5.48
685	Bronze	Bronze	6"	8"	5"	8.90	8.01



COVER SLIDES OFF AT BOTTOM EXPOSING TOP AND BOTH SIDES. CABINET SITS ON 1/2" RUBBER FEET.

COLOR-STYLED ADJUSTA-BOX

CAN BE ADJUSTED FOR VIEWING FROM ANY ANGLE WITH A 360° MOUNTING RANGE. BRACKET IS SLOTTED FOR WALL-OVERHEAD-CABINET MOUNTING--OR AS A DESK STAND. BRACKET FITTED WITH FOUR 1/2" FEET TO PREVENT SCRATCHING OF SURFACES.



STOCK NO.	COLOR	LENGTH	WIDTH	HEIGHT	PRICE EACH	
					1-9	10+
SM275-1	IVORY	3"	2 3/4"	4"	\$6.39	\$5.75
SM2754-G	GOLD	2 3/4"	3 3/4"	4"	6.50	5.85
SM453-BG	BLUE & GOLD	5"	4"	3"	7.23	6.51
SM463-BG	BEIGE & GOLD	6"	4"	3"	7.65	6.89



PRODUCTS — SPECIAL OFFER
 ORDERS \$25.00 and over
 Take 10% Discount

double-row JUMPER HEADERS

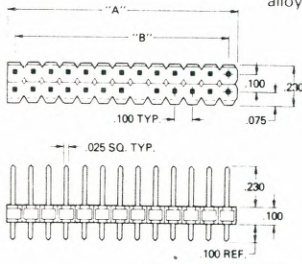
NEW

Ideal mates for "GREAT JUMPERS"

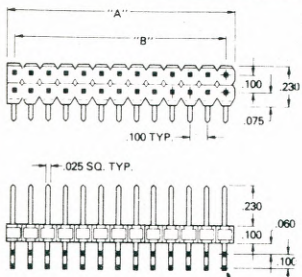
- Solder to PC boards for instant plug-in access via socket-connector jumpers
- .025" square posts are molded into plastic header strip on a .10" x .10" matrix
- Choice of straight or right angle configurations



MATERIALS: Dielectric is thermoplastic polyester, unaffected by wave soldering or board cleaning solvents. Posts are fabricated from copper alloy

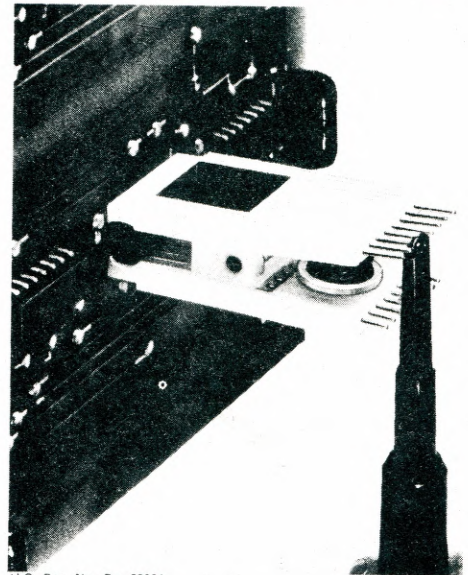


STRAIGHT	No. Posts	Dim. "A"	Dim. "B"	Part Number	Price 2 sets
	20	1.0	0.9	923862-R	\$.98
	26	1.3	1.2	923863-R	\$ 1.28
	34	1.7	1.6	923864-R	\$ 1.64
	40	2.0	1.9	923865-R	\$ 1.94
	50	2.5	2.4	923866-R	\$ 2.36



RIGHT-ANGLE	No. Posts	Dim. "A"	Dim. "B"	Part Number	Price 2 sets
	20	1.0	0.9	923872-R	\$ 1.20
	26	1.3	1.2	923873-R	\$ 1.52
	34	1.7	1.6	923874-R	\$ 1.96
	40	2.0	1.9	923875-R	\$ 2.30
	50	2.5	2.4	923876-R	\$ 2.82

IC TEST CLIPS



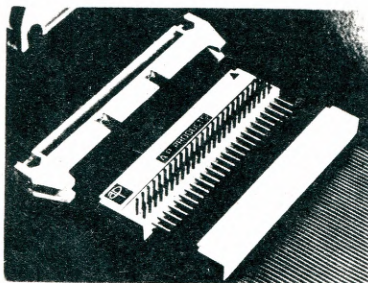
U.S. Pat. No. Re. 28064

MODEL	Row-To-Row Dimension	PART NUMBER	PRICE
TC-8	.3 IN.	923695	\$7.35
TC-14	.3 IN.	923698	4.50
TC-16	.3 IN.	923700	4.75
TC-16 LSI	.5/.6 IN.	923702	8.95
TC-18	.3 IN.	923703	10.00
TC-20	.3 IN.	923704	11.55
TC-22	.4 IN.	923705	11.55
TC-24	.5/.6 IN.	923714	13.85
TC-28	.5/.6 IN.	923718	15.25
TC-36	.5/.6 IN.	923720	19.95
TC-40	.5/.6 IN.	923722	21.00

All products are guaranteed to meet or exceed published specifications

INTRA-CONNECTOR

PROVIDES FULL ACCESS TO LINES ... SAVES VALUABLE TIME TESTING FLAT RIBBON CABLE SYSTEMS

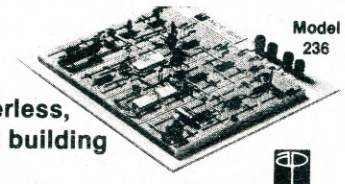


Patents Pending

No. of Contacts	Dim. "A"	Model No.	Part Number	Price Each
20	1.160	IC-20	922576-20	\$6.00
26	1.460	IC-26	922576-26	6.90
34	1.860	IC-34	922576-34	8.10
40	2.160	IC-40	922576-40	9.00
50	2.660	IC-50	922576-50	10.50

ACE • All-Circuit Evaluator

for fast, solderless, plug-in circuit building and testing



Model 236

Just plug in any components with leads to .032" dia. Interconnect with solid wire up to 20 ga. Assembled models too!

ACE Model No.	Tie Points	DIP Capacity	No. Buses	No. Posts	Board Size (inches)	Price Each
200-K (kit)	728	8 (16's)	2	2	4-9/16 x 5-9/16	\$18.95
208 (assem.)	872	8 (16's)	8	2	4-9/16 x 5-9/16	28.95
201-K (kit)	1032	12 (14's)	2	2	16 x 7	24.95
212 (assem.)	1224	12 (14's)	8	2	4-9/16 x 7	34.95
218 (assem.)	1760	18 (14's)	10	2	6-1/2 x 7-1/8	46.95
227 (assem.)	2712	27 (14's)	28	4	8 x 9-1/4	59.95
236 (assem.)	3648	36 (14's)	36	4	10-1/4 x 9-1/4	79.95

All AP Products in Stock — Send for Free AP Products Catalogue

LOGICAL CONNECTIONS

NEW

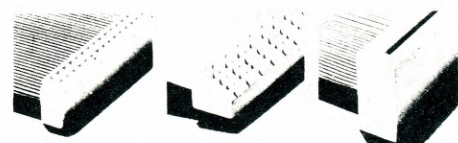
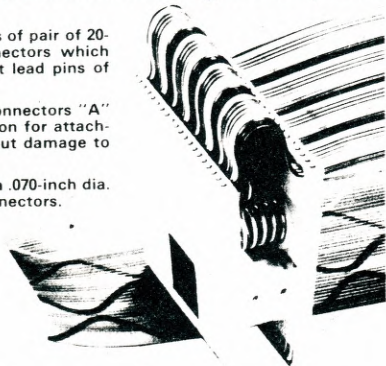


unbeatable GREAT JUMPERS

NEW

Ideal for interfacing with remote logic analyzers

- Test clip termination end consists of pair of 20-contact, single-row socket connectors which install in tandem on external test lead pins of AP 40-pin IC test clip.
- 1 1/2" of flexible cable between connectors "A" and "B" allows independent action for attaching and actuating test clip without damage to connectors or test clip.
- Individual lines also accessible via .070-inch dia. probe access holes in back of connectors.
- Connectors are molded onto cable for optimum electrical integrity and rugged strain relief.
- Choices of remote end terminations available.



Socket Connector
Mates with .025" square or dia. posts spaced on patterns of .100" centers. Probe access holes in back.

PCB Connector
Mates with 4 rows of .047" dia. holes .100" apart with each row staggered .050" from first row. Probe access holes in back.

Card-Edge Connector
Mates with double-sided 1/16" PCB board up to 2.050" wide with contact fingers on .100" centers. Probe access holes in back.

Above photo shows Part No. 922581-40. Remote end of rainbow cable is terminated in 40-contact socket connector molded on at the factory and fully tested for fit and continuity.

Materials
Dielectric body: UL recognized glass-filled polyester. Contacts: non-corrosive nickel-silver alloy 770.

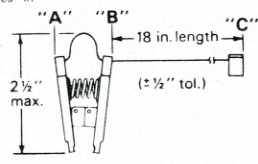
Cable Type
Stranded, 28 AWG, Rainbow Color Coded.

LOGICAL CONNECTION (Jumper and Test Clip)

Model Number	Remote End Termination	Part Number	Price Each
LC-400	No Connector	923880-40	\$33.45
LC-401	Socket Connector	923881-40	\$6.40
LC-402	Card-Edge Connector	923882-40	\$6.96
LC-403	PCB Connector	923883-40	\$5.10
LC-404	DIP Plug	923884-40	\$4.85

JUMPER ASSEMBLY ONLY (No Test Clip)

Model Number	Remote End Termination	Part Number	Price Each
TCJ-400	No Connector	922590-40	\$12.45
TCJ-401	Socket Connector	922591-40	\$5.40
TCJ-402	Card-Edge Connector	922592-40	\$5.96
TCJ-403	PCB Connector	922593-40	\$4.10
TCJ-404	DIP Plug	922594-40	\$3.85



SPECIAL TEST CLIP (40 pins)

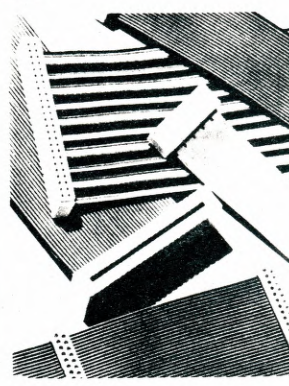
Model Number	Part Number	Price Each
LTC-40	923690-40	\$21.00

FLAT RIBBON CABLE ASSEMBLIES AT AFFORDABLE PRICES

- Choice of 3 types of end connectors molded on and factory tested.
- Daisy chain and single-end also available.
- 5 popular sizes to choose from: 20, 26, 34, 40 and 50 contacts, each with line-by-line probe access holes.
- Choice of 2 cable types and 5 lengths.

FLAT RIBBON CABLE

Stranded, 28 AWG with laminated PVC insulation. "Electric Pink" cable has red stripe on one edge for orientation. Used only on double-end and daisy chain assemblies. "Rainbow" cable is coded in standard 10-color sequence on front. Serpentine striping on back aids in identifying wire number and wire group during tear-down separation for discrete wire terminations. Used only on single-end jumpers.



PCB JUMPERS

No. Contacts	DOUBLE END	
	Electric Pink	Rainbow
20	924032-06-R \$2.57	924042-36-R \$2.55
	924033-06-R \$3.32	924043-36-R \$3.31
26	924034-06-R \$3.95	924044-36-R \$4.13
	924035-06-R \$4.57	924045-36-R \$4.94
40	924036-06-R \$5.62	924046-36-R \$5.97

CARD-EDGE JUMPERS

No. Contacts	DOUBLE END		DAISY CHAIN (3 connectors) Electric Pink
	Electric Pink	Rainbow	
20	924052-06-R \$5.69	924062-36-R \$4.11	924082-06-R \$8.42
	924053-06-R \$6.46	924063-36-R \$4.88	924093-06-R \$9.54
26	924054-06-R \$7.96	924064-36-R \$6.15	924094-06-R \$11.74
	924055-06-R \$9.29	924065-36-R \$7.20	924095-06-R \$13.70
40	924056-06-R \$10.10	924066-36-R \$8.21	924096-06-R \$14.86

SOCKET JUMPERS

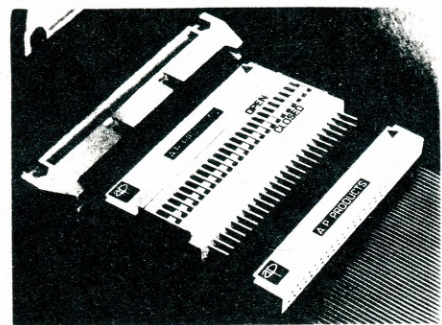
No. Contacts	DOUBLE END JUMPER ASSEMBLIES Electric Pink Cable			SINGLE END Rainbow	DAISY CHAIN (3 connectors) Electric Pink
	6"	18"	36"		
20	924002-06-R \$3.70	924002-18-R \$ 4.16	924002-36-R \$ 4.85	924012-36-R \$3.12	924072-06-R \$ 5.44
	924003-06-R \$4.78	924003-18-R \$ 5.38	924003-36-R \$ 6.28	924013-36-R \$4.04	924073-06-R \$ 7.02
26	924004-06-R \$6.25	924004-18-R \$ 7.05	924004-36-R \$ 8.25	924014-36-R \$5.30	924074-06-R \$ 9.18
	924005-06-R \$7.33	924005-18-R \$ 8.27	924005-36-R \$ 9.68	924015-36-R \$6.22	924075-06-R \$10.76
40	924006-06-R \$9.15	924006-18-R \$10.31	924006-36-R \$12.05	924016-36-R \$7.73	924076-06-R \$13.43



INTRA-SWITCH

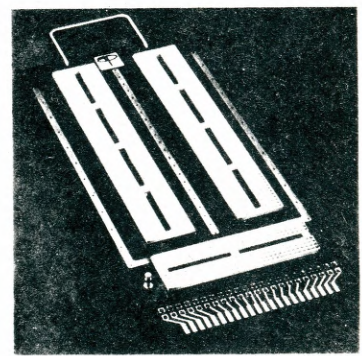
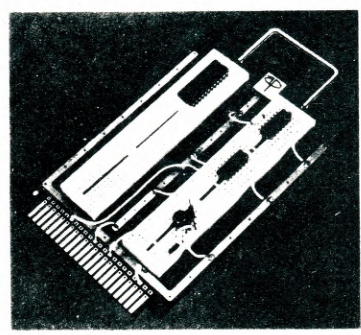
NEW

ALLOWS ANY LINE TO BE OPENED OR CLOSED ... ANOTHER TIME SAVER IN TESTING FLAT RIBBON CABLE SYSTEMS



Patent Pending

No. of Contacts	Dim. "A"	Model No.	Part Number	Price Each
20	1.160	IS-20	922578-20	\$12.00
26	1.460	IS-26	922578-26	\$13.80
34	1.860	IS-34	922578-34	\$16.20
40	2.160	IS-40	922578-40	\$18.00
50	2.660	IS-50	922578-50	\$21.00



Model	Dimensions	Part Number	Price Each
Unicard I	4-3/8" x 6-3/8"	923770	\$31.50
Unicard I	4-1/2" x 6-3/8"	923771	\$1.50
Unicard II	4-3/8" x 9-3/4"	923775	\$6.20
Unicard II	4-1/2" x 9-3/4"	923776	\$6.20



Continental Specialties

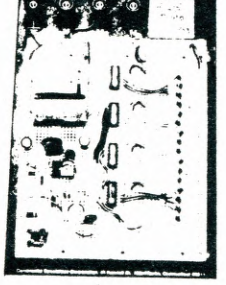


Quick Test sockets AND BUS STRIPS

Expandable, interlocking breadboarding system saves hours of soldering, desoldering and resoldering. Also saves wear and tear on components. Use QT sockets and bus strips for designing, troubleshooting, interconnecting, patching and dozens of other applications. Unique snap/lock mechanism joins units in seconds, so you can add-on or take-off at will.

STOCK #	LGTH	HOLE TO HOLE	TERMINALS	UNIT PRICE
QT-595	6.5"	6.2"	118	\$12.45
QT-598	6.5"	6.2"	20	2.45
QT-475	5.3"	5.0"	94	9.95
QT-478	5.3"	5.0"	16	2.20
QT-355	4.1"	3.8"	70	8.45
QT-358	4.1"	3.8"	12	1.95
QT-185	2.4"	2.1"	36	4.70
QT-125	1.8"	1.5"	24	3.70
QT-85	1.4"	1.1"	16	3.20
QT-75	1.3"	1.0"	14	2.95

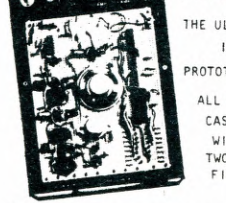
PROTO BOARDS 6 expanded breadboards...



STOCK No.	DESCRIPTION	PRICE
PB-6	6 14-PIN DIP CAPACITY 630 SOLDERLESS TIE POINTS	\$15.90
PB-100	10 14-PIN DIP CAPACITY 760 SOLDERLESS TIE POINTS	\$19.90
PB-101	10 14-PIN DIP CAPACITY 940 SOLDERLESS TIE POINTS	\$29.90
PB-102	12 14-PIN DIP CAPACITY 1240 SOLDERLESS TIE POINTS	\$39.90
PB-103	24 14-PIN DIP CAPACITY 2250 SOLDERLESS TIE POINTS	\$59.90
PB-104	32 14-PIN DIP CAPACITY 3060 SOLDERLESS TIE POINTS	\$79.90

PROTOBOARD -PB-103

POWERED PROTO BOARDS ... with built-in short-proof regulated power supplies!



THE ULTIMATE IN PROTOTESTING.	PROTOBOARD PB-203	PROTOBOARD PB-203A
ALL METAL CASES WITH TWO-TONE FINISH.	3 QT-595 Sockets 4 QT-598 Bus Strips 1 QT-478 Bus Strip Fuse Power Switch Power-On Light 9.75" x 6.6" W x 3.25" H Weight 5 lbs 5V, 1 AMP regulated power supply	3 QT-595 Sockets 4 QT-598 Bus Strips 1 QT-478 Bus Strip Fuse Power Switch Power-On Light 9.75" x 6.6" W x 3.25" H Weight 5.5 lbs 5V, 1 AMP regulated power supply (same as PB203) +15V, 1/2 AMP regulated power supply -15V, 1/2 AMP regulated power supply
READY TO USE, JUST PLUG IN AND START BUILDING. SELF-CONTAINED WITH POWER SWITCHES, INDICATOR LAMPS AND POWER FUSES; TWENTY-FOUR 14-PIN DIP CAPACITY. PB-203 OFFERS 2 EXTRA FLOATING 5-WAY BINDING POSTS FOR EXTERNAL SIGNALS	OUTPUT SPECIFICATIONS Output voltage 5V ±1% Ripple & Noise @ 1/2 AMP 10 millivolts Load Regulation Better than 1%	OUTPUT SPECIFICATIONS Output voltage 15V, internally adjustable Ripple and noise @ 1/2 AMP 10 millivolts Load Regulation Better than 1%
	\$78.95	\$128.95

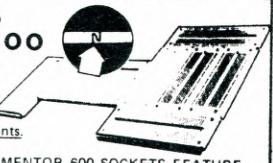
INTERLOCKING SOCKETS EXPERIMENTOR 300 & 600 INTERLOCKING EDGES LOCK TOGETHER - ALL 4 SIDES OF EACH PANEL

new one-piece sockets both provide 94 five-point terminals, plus two 40-point bus strips, for a total of 550 solderless tie-points.

NEW EXPERIMENTOR™ 300 and EXPERIMENTOR 600 SOCKETS FEATURE EXTREMELY LOW COST, FULL FAN-OUT WITH 3" AND .6" DIP'S and SNAP-TOGETHER VERTICAL/HORIZONTAL INTERLOCKING.

Experimentor 600, has a 6/10" center channel, with full 4-terminal fan-out for microprocessors, clock chips, RAM's, ROM's and other larger DIP packages.

EXPERIMENTOR 300 has a 3/10" center channel for smaller DIP's.



STOCK #	PRICE EACH
-EXP-600	\$10.90
-EXP-300	9.90

IC CLIPS CABLES PROTO CLIPS

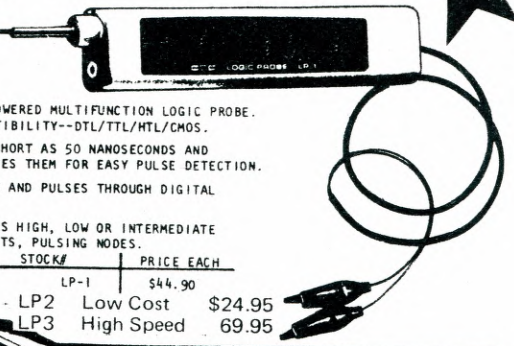
PRE-WIRED READY-TO-USE CABLES ARE RATED UP TO 150 V AND 105°C. SIMPLIFIES IC CONNECTIONS TO OTHER IC'S, PC BOARDS, TEST FIXTURES, AND INTERCONNECTING PROTOBOARDS.

NARROW, DEEP THROAT BRINGS IC LEADS UP FROM CROWDED PC BOARDS FOR FAST SIGNAL TRACING.

PC-14-36-5	PC-14-36-D	PC-16-36-5	PC-16-36-D
14 PIN SINGLE CLIP \$8.45 EACH	14 PIN DUAL CLIP \$15.45 EACH	16 PIN SINGLE CLIP \$9.20 EACH	16 PIN DUAL CLIP \$16.70 EACH

PC-14	PC-16	PC-24	PC-40
(14 PIN PROTOCLIP) \$4.45 EACH	(16 PIN PROTOCLIP) \$4.70 EACH	(24 PIN PROTOCLIP) \$8.45 EACH	(40 PIN PROTOCLIP) \$13.70 EACH

LOGIC PROBE



COMPACT, CIRCUIT-POWERED MULTI-FUNCTION LOGIC PROBE. MULTI-FAMILY COMPATIBILITY--DTL/TTL/HTL/CMOS. DETECTS PULSES AS SHORT AS 50 NANOSECONDS AND STRETCHES AND LATCHES THEM FOR EASY PULSE DETECTION. TRACES LOGIC LEVELS AND PULSES THROUGH DIGITAL CIRCUITRY. INSTANTLY RECOGNIZES HIGH, LOW OR INTERMEDIATE LEVELS; OPEN CIRCUITS, PULSING NODES.

STOCK#	PRICE EACH
LP-1	\$44.90
LP2 Low Cost	\$24.95
LP3 High Speed	69.95

Logic Monitor

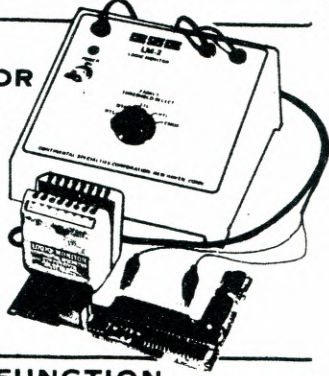


AUTOMATICALLY AND ACCURATELY DISPLAYS STATIC AND DYNAMIC LOGIC STATES OF DIGITAL IC'S. WORKS WITH DTL, HTL, TTL AND CMOS DUAL-IN-LINE IC'S. BRIGHT 16-LED DISPLAY ELIMINATES GUESSWORK. CIRCUIT-POWERED DESIGN ELIMINATES HUNTING FOR POWER LEADS AND WORRIES ABOUT ACCIDENTAL SHORTS OR GROUNDING.

STOCK#	PRICE EACH
LM-1	\$74.90

LOGIC MONITOR

AUTOMATICALLY AND ACCURATELY DISPLAYS STATIC AND DYNAMIC STATES OF DIGITAL IC'S. SELECTABLE THRESHOLD CONTROL SETS LOGIC "1" LEVEL TO PROPER VOLTAGE FOR EACH LOGIC FAMILY. FULLY-ISOLATED POWER SUPPLY ELIMINATES LOADING OF CIRCUIT UNDER TEST. CONSTANT-BRIGHTNESS LED ILLUMINATION, FOR EASIER VIEWING.



STOCK#	PRICE EACH
LM-2	\$128.95

BREADBOARD CIRCUIT DESIGNER

FOR FAST, EASY, SOLDERLESS CIRCUIT DESIGN. ADJUSTABLE, REGULATED 5-15VDC, 600mA FUSED SUPPLY, WITH LESS THAN 20mV NOISE AND RIPPLE AT RATED OUTPUT. BUILT-IN 0-15VDC METER LETS YOU MONITOR VOLTAGES IN CIRCUIT OR SUPPLY. TOP PANEL SUPPLY AND METER CONNECTIONS EASILY MADE; ON-OFF AND VOLTAGE ADJUSTMENT CONTROLLED BY POTENTIOMETER; LED INDICATOR.



STOCK#	PRICE EACH
DM-1	\$68.95

FUNCTION GENERATOR DM-2

ADVANCED IC CIRCUITRY PRODUCES STABLE LOW-DISTORTION SINE WAVES, FAST-RISE-AND-FALL-TIME SQUARE WAVES AND HIGH LINEARITY TRIANGLE WAVES. FREQUENCY ACCURATE TO 5% IN 5 RANGES; 1kHz TO 100kHz. OUTPUT ADJUSTABLE, 100mV-10V P-P. POWER SWITCH WITH LED INDICATOR; FREQUENCY SELECTOR DIAL (1-10 IN 100 INCREMENTS); AMPLITUDE CONTROL.



STOCK#	PRICE EACH
DM-2	\$73.95

R C BRIDGE DM-3

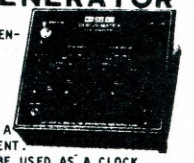
PRECISION RESISTANCE AND CAPACITANCE MEASUREMENTS IN SECONDS. READINGS ACCURATE WITHIN 5%. SIMPLE 2-CONTROL OPERATION: SET RANGE WITH SWITCH, THEN TURN NULL ADJUST DIAL UNTIL BOTH LEADS ARE LIT. POWER SWITCH WITH LED INDICATOR; NULL ADJUST DIAL (1-10 IN 100 INCREMENTS); RESISTANCE: 10-1.0MEG IN 5 RANGES. CAPACITANCE: 10pF-1uF IN 5 RANGES.



STOCK#	PRICE EACH
DM-3	\$73.95

MULTIPURPOSE DM-4 PULSE GENERATOR

A MULTI-PURPOSE, MULTI-MODE PULSE GENERATOR PROVIDING PULSES FROM 0.5Hz-5MHz, COMPATIBLE WITH CMOS AND TTL. PROVIDES PRECISION AND VERSATILITY OF A LABORATORY INSTRUMENT. DESIGN-MATE 4 MAY BE USED AS A CLOCK SOURCE, DELAYED PULSE GENERATOR, SYNCHRONOUS CLOCK SOURCE, MANUAL SYSTEM STEPPER, PULSE STRETCHER, CLOCK, BURST GENERATOR.

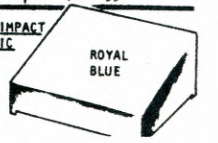


STOCK#	PRICE EACH
DM-4	\$128.95

DESIGN MATE CASE HIGH IMPACT PLASTIC

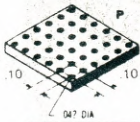
DESIGN YOUR OWN! BLANK PLASTIC BOX FOR YOUR LAYOUT. ROYAL BLUE

STOCK #	SIZE	PRICE EACH
DMC-1	6 3/4" L x 7 1/2" W x 3 1/4" H High	\$6.90
DMC-2	5 5/8" L x 6" W x 3" High	5.90





Vector Electronic Company
INCORPORATED

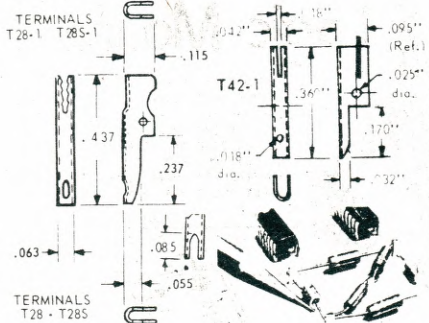


P-Pattern
0.1" Hole
Spacing

VECTOR BOARD

MATERIAL	HOLE PTN	STOCK NO.	LONG	WIDE	THICK	PRICES	
						1	2 up
PHENOLIC	P	64P44-062XXXP	4.50	6.50	1/16	1.72	1.54
	P	169P44-02XXXP	4.50	17.00	1/16	3.69	3.32
EPOXY GLASS	P	64P44-062	4.50	6.50	1/16	2.07	1.86
	P	84P44-062	4.50	8.50	1/16	2.56	2.31
	P	169P44-062	4.50	17.00	1/16	5.04	4.53
	P	169P84-062	8.50	17.00	1/16	9.23	8.26
EPOXY GLASS COPPER CLAD	P	169P44-062C1	4.50	17.00	1/16	6.80	6.12

VECTOR HARDWARE



CAT. NO.	TAB STYLE	MATERIAL	PLATING	STD. PKG.	MINIMUM 100 EACH	1000 EACH
T28	237"	Beryllium	Tintillate		\$3.00 C	\$12.50 M
T28S	& Hole	Copper	Silver	Bags of	\$4.00 C	\$17.50 M
T28-1	.125"	Beryllium	Tintillate	1000	\$3.50 C	\$13.50 M
T28S-1	No Hole	Copper	Silver		\$4.00 C	\$17.50 M
T42-1 Pkg. 100					Terminals	\$3.50 C \$13.00 M
CAT. NO.	DESCRIPTION				MINIMUM 25 EACH	100 EACH
T45-4	Quad, with pins mounted				\$4.00 lot	\$12.00 C
T45A-4	Quad, no pins mounted				\$4.50 lot	\$12.50 C
T32A-1	Spring Clip				\$6.00/lot	\$14.00 C

VECTOR TERMINALS

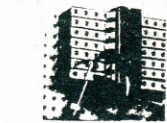
WIRE WRAPPABLE TERMINALS
FOR .042" DIAMETER HOLES



T32A-1 Springclip. For fast, reliable circuit set-ups without soldering. Half hard steel spring. Tintillate plated.

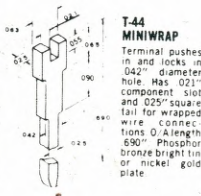
Part No.	Finish		Material	Post Size	Height Above 1/16" Board	Length Above 1/16" Board	25 pcs		50 pcs		100 pcs	
	Series	Gold					Tinned	Gold	Tin	Gold	Tin	Gold	Tin
T44	T44-1	T44	Phosphor Bronze	.025" sq.	.065	5	1.50 lot	1.00 lot	2.75 lot	1.75 lot	4.25 C	2.50 C
T46	T46-1	T46	Phosphor Bronze	.028" sq.	.400	9/16	1.75 lot	1.25 lot	3.00 lot	2.25 lot	5.25 C	3.50 C
T49	T49A	T49	Phosphor Bronze	.025" sq.	.200	.560	1.75 lot	1.25 lot	3.10 lot	2.25 lot	5.50 C	3.50 C
T49-1	T49A-1	T49-1	Phosphor Bronze	.025" sq.	.200	.388	1.75 lot	1.25 lot	2.90 lot	1.90 lot	4.50 C	3.00 C

(25 Each MINIMUM)

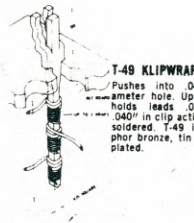


SOLDERLESS STRIP KLIP
EXPERIMENTAL TERMINALS FOR I.C.'s interconnected spring clips. Low profile, in groups of 4 or more for connecting dual in line integrated packages, transistors and semiconductor units, as well as other circuit elements. Wire can be inserted either from top or bottom.
T45-4 - Quad w/2 Mounting Pins.

T45-4



T44 MINIWRAP
Terminal pushes in and locks in .042" diameter hole. Has .021" component slot and .025" square tail for wrapped wire. Connections: A length .690" Phosphor bronze bright tin or nickel gold plate.



T49 KLIPWRAP
Pushes into .042" diameter hole. Upper end holds leads .018" to .040" in clip action until soldered. T49 is gold plated.



T46-1
These double ended wrap-posts are inserted into .042" diameter circuit board holes such as P-Pattern Micro-Vectorboard with P133A installation tool. The pins extend .040" above the board and .033" below 1/4" thick board. Gold plated phosphor bronze; P133A tool, or preferably P158/D8 impact punch.

SLIT & WRAP NOW
AVAILABLE FOR TEFZEL
PRICE IS SAME SPECIFY
SLIT & WRAP FOR TEFZEL

NEW-REVOLUTIONARY TOOL

SLIT-N-WRAP

WRAPS
INSULATED WIRE
FOUR TIMES FASTER
NO Prestripping
NO Precutting
Spool Fed Wire

Users say:
"Your P180 tool really does just what you said it would-We're very satisfied."
"We're shifting nearly all our wrapping over to Slit-N-Wrap."

The spooled wire passes thru the tool past a slitting edge next to the wrap post. A narrow longitudinal cut is made in the insulation where it passes the square post corner. The bared copper is indented by the sharp edge. (7 turns equal 28 contacts.) Insulation is slit where wrapped, but not between terminal posts when fed straight out of the tool.

Model P180 with two 100' spools of 28 gauge wire \$24.50

Battery powered Model P180-4Y includes charger and wire \$110.00

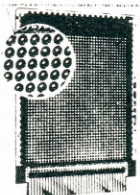


view of unwrapped wire end .025 sq. post

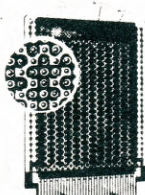
ONLY
\$24.95
Battery
Powered
\$80.00

Vector
ELECTRONIC COMPANY

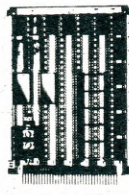
PLUG BOARDS & CONNECTORS



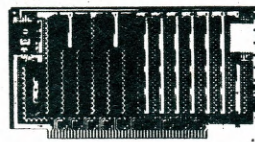
4066-4
(Component side)



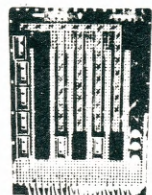
4066-4
(Wiring Side)



4493
(Component Side)



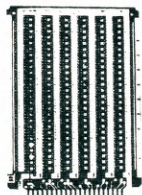
8800V
(Component side with sockets. Available to order with sockets & terminals installed)



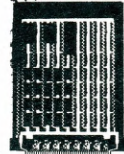
3682-2
(Component Side)



3682-2
(Wiring Side)



4494
(Component Side)



4350
(Component Side w/ Sockets)

PART NO.	DESCRIPTION	NET PRICE
3662DP	DIP Plugbord	\$ 7.76
3662-4DP	DIP Plugbord with Ground Plane	9.76
3662-5DP	DIP Plugbord	7.32
3667-2DP	DIP Plugbord	9.86
3677-6DP	DIP Padbord	7.40
3682-2DP	DIP Plugbord	10.42
BR27DP	P.C. Card Guides - 1 pr.	1.50
8800VDP	S100 Proto Bd.	19.95
4350DP	40/80 I/O Proto Bd.	17.95
4112-4DP	22/44 Dip Board	13.60
4066-4DP	36/72 Zig Zag Bd.	13.60
838-1DP	22/44 Plugboard	5.53
	22/44 w/w Connector	4.49
	36/72 w/w Connector	5.18
	40/80 w/w Connector	7.73
	50/100 w/w Connector	5.50

HOBBY WRAP TOOL

1 year warranty

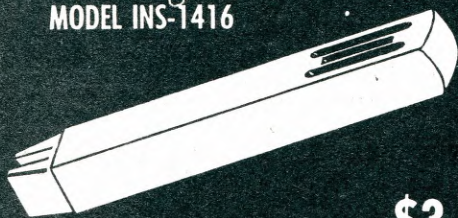


\$33⁹⁵

Battery Charger 15v BC-2-115 \$6.95
230v BC-2-230 \$6.95

Replacement Bits for ANG 30 BT-30 \$2.95
For ANG 26-28 BT-2628 \$7.95

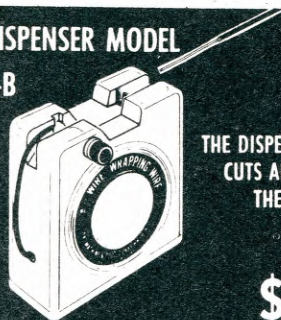
DIP IC INSERTION TOOL WITH PIN STRAIGHTENER MODEL INS-1416



\$3.49*

WIRE DISPENSER

WIRE DISPENSER MODEL WD-30-B



THE DISPENSER WHICH
CUTS AND STRIPS
THE WIRE

\$3.45*

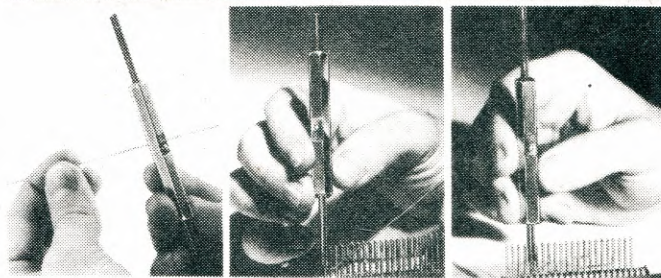
Blue Wire	WD 30-B	3.45
Yellow Wire	WD 30-Y	3.45
White Wire	WD 30-W	3.45
Red Wire	WD 30-R	3.45

KYNAR WIRE WRAP WIRE

Colors Available: White Yellow
Red Blue
Black Green

Gauge (AWG)	50 ft.	250 ft.	1000 ft.
30 AWG	1.95	4.50	15.00
28 AWG	2.95	7.95	21.95
26 AWG	2.95	7.95	21.95

HOBBY-WRAP-30



STRIP

WRAP

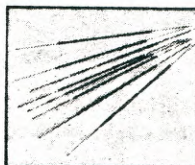
UNWRAP

HOBBY WRAP 30 WSU-30 \$5.95

MODIFIED HOBBY WRAP WSU30M \$ 6.95

PRE CUT PRE STRIPPED WIRE

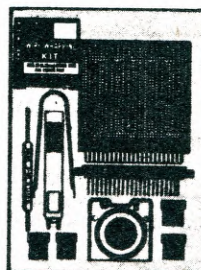
Wire for wire-wrapping, AWG-30 (0.25mm) KYNAR® wire, 50 wires per package stripped 1" both ends.



		50	250	1000 pcs.
30-AWG blue Wire, 1" Long	30-B-50-010	\$1.99		
30-AWG Yellow Wire, 1" Long	30-Y-50-010	\$1.99		
30-AWG White Wire, 1" Long	30-W-50-010	\$1.99		\$3.39
30-AWG Red Wire, 1" Long	30-R-50-010	\$1.99		
30-AWG Blue Wire, 2" Long	30-B-50-020	\$1.07		
30-AWG Yellow Wire, 2" Long	30-Y-50-020	\$1.07		\$3.69
30-AWG White Wire, 2" Long	30-W-50-020	\$1.07		
30-AWG Red Wire, 2" Long	30-R-50-020	\$1.07		
30-AWG Blue Wire, 3" Long	30-B-50-030	\$1.16		
30-AWG Yellow Wire, 3" Long	30-Y-50-030	\$1.16		\$4.19
30-AWG White Wire, 3" Long	30-W-50-030	\$1.16		
30-AWG Red Wire, 3" Long	30-R-50-030	\$1.16		
30-AWG Blue Wire, 4" Long	30-B-50-040	\$1.23		
30-AWG Yellow Wire, 4" Long	30-Y-50-040	\$1.23		\$4.39
30-AWG White Wire, 4" Long	30-W-50-040	\$1.23		
30-AWG Red Wire, 4" Long	30-R-50-040	\$1.23		
30-AWG Blue Wire, 5" Long	30-B-50-050	\$1.30		
30-AWG Yellow Wire, 5" Long	30-Y-50-050	\$1.30		\$4.69
30-AWG White Wire, 5" Long	30-W-50-050	\$1.30		
30-AWG Red Wire, 5" Long	30-R-50-050	\$1.30		
30-AWG Blue Wire, 6" Long	30-B-50-060	\$1.38		
30-AWG Yellow Wire, 6" Long	30-Y-50-060	\$1.38		\$4.89
30-AWG White Wire, 6" Long	30-W-50-060	\$1.38		
30-AWG Red Wire, 6" Long	30-R-50-060	\$1.38		

© KYNAR-PENNWALT

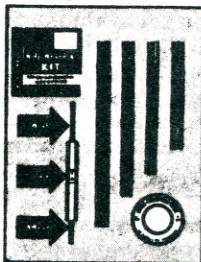
WIRE-WRAPPING KIT



Contains: Hobby Wrap Tool WSU-30 M, Wire Dispenser WD-30-B, (2) 14 DIP's, (2) 16 DIP's, Hobby Board H-PCB-1, DIP/IC Insertion Tool INS-1416 and DIP/IC Extractor Tool EX-1

Wire-Wrapping Kit WK-4B (Blue) **\$25.99**

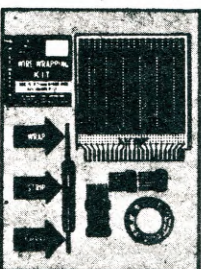
WIRE-WRAPPING KITS



Contains: Hobby Wrap Tool WSU-30, (50 ft.) Roll of wire Prestripped wire 1" to 4" lengths (50 wires per package) stripped 1" both ends.

Wire Wrapping Kit, (Blue)	WK-2-B	\$12.95
Wire Wrapping Kit, (Yellow)	WK-2-Y	\$12.95
Wire Wrapping Kit, (White)	WK-2-W	\$12.95
Wire Wrapping Kit (Red)	WK-2-R	\$12.95

WIRE-WRAPPING KIT



Contains: Hobby Wrap Tool WSU-30, Roll of wire R-30B-0050, (2) 14 DIP's, (2) 16 DIP's and Hobby Board H-PCB-1.

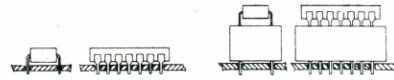
Wire-Wrapping Kit WK-3B (Blue) **\$16.95**

Bishop Dual In-Line Package (DIP) Patterns

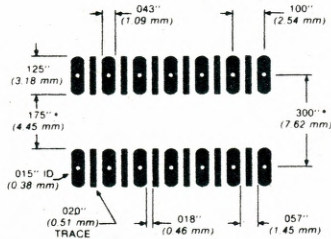
Typical mounting configurations for all patterns shown on this page.

All Patterns shown are 2X scale (2:1), and Dimensions shown are actual size 1X scale (1:1). For 2X or 4X dimensions, multiply the dimensions shown by 2 or 4, respectively.

Guaranteed Pattern Tolerance $\pm .002$ in. (0,05 mm).



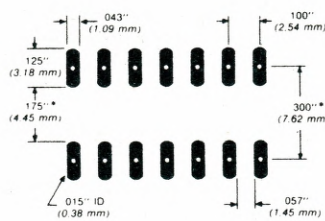
1. STANDARD OR 2. "PLUG-IN" RECEPTACLE



Cut Pad With Conductors

Use where a longer terminal area is desired with conductors between terminals.

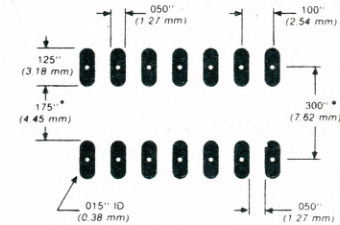
No. of Leads	Qty.	Scale	Cat. No.	Price Per Pkg. (Black)
14	250	1X	6760	9.10††
16	250	1X	6763	9.10††
	250	2X	6764	9.10



Cut Pad

Use where a longer terminal area is desired. Can be used with conductors between terminals.

No. of Leads	Qty.	Scale	Cat. No.	Price Per Pkg. (Black)
16	250	1X	6453	9.10††
	250	2X	6244	9.10



Oval Pad

Use where a larger terminal area is desired.

No. of Leads	Qty.	Scale	Cat. No.	Price Per Pkg. (Black)
8	250	1X	6499	\$ 8.20††
	250	2X	6500	8.20††
	100	4X	6501	9.10††

INSERTION TYPE CONNECTOR PATTERNS

For use when contacts on edge of PC board mate directly with those in a push-on board-edge receptacle connector.



Price for all catalog numbers shown on this page is \$14.55 per package.

Center-to-Center Spacing	Available in Black only Patterns shown 1X (1:1) scale. Dimensions shown 1X (1:1) scale; for 2X and 4X scales, multiply values shown by 2 and 4, respectively.	Scale	Contacts / Strip	Plain		Plain With Plating Bar	
				Cat. No.	Strips / Pkg.	Cat. No.	Strips / Pkg.
.100" (2.54 mm) .050" Contacts		1X	178	6700	7	6702	5
.125" (3.175 mm)		1X	143	6704	9	6706	6
		2X	71	6716	17	6718	12
.156" (3.962 mm)		1X	114	6708	11		
		2X	57	6720	22		

HOW TO ORDER

Specify number of packages and catalog number. Prices shown are for standard opaque black. Opaque black is shipped unless otherwise specified.

Donut Pads

(ROUND TERMINAL AREAS)

STANDARD INCH



The basic all-purpose PC terminal area for termination of wire or component leads extending through the PC board. ID aids in accurate pad location to grid centers.

QUANTITY: 500 SYMBOLS/PKG.

in.	mm	OD		Cat. No.	Price /Pkg. (Black)
		in.	mm		
.150	3,81	.031	0,79	D144	2.40
		.040	1,02	D203	2.40
.156	3,96	.031	0,79	D103	2.40
.187	4,75	.040	1,02	D204	2.40
.200	5,08	.040	1,02	D104	2.40



ACTIVE FILTER
HYBRID CIRCUIT
Only \$4.95 each

Bishop Precision Slit PC Artwork Tape Size and Price Charts

METRIC MEASURE (mm)

(SINGLE ROLL PACKAGING)

MM Tape Size	Std. Equiv. (Inches)	No. Of Rolls Per Pkg.	BLACK (T201) 18.3m		RED (T205) 16.5m		BLUE (T207) 16.5m	
			Order No.	Price Per Roll	Order No.	Price Per Roll	Order No.	Price Per Roll
0.5	.020	1	201-005-21	\$.95	205-005-21	\$.90	207-005-21	\$.90
1.0	.039		201-010-21	.95	205-010-21	.90	207-010-21	.90
1.5	.059		201-015-21	.95	205-015-21	.90	207-015-21	.90
2.0	.079		201-020-21	.95	205-020-21	1.25	207-020-21	1.25
2.5	.098		201-025-21	.95	205-025-21	1.25	207-025-21	1.25
3.0	.118	1	201-030-21	1.00	205-030-21	1.25	207-030-21	2.05
3.5	.138		201-035-21	1.00	205-035-21	1.25	207-035-21	2.20
4.0	.157		201-040-21	1.00	205-040-21	1.25	207-040-21	2.45
4.5	.177		201-045-21	1.00	205-045-21	1.25	207-045-21	2.45
5.0	.197		201-050-21	1.00	205-050-21	1.25	207-050-21	2.45
5.5	.217	1	201-055-21	1.00	205-055-21	1.25	207-055-21	2.60
6.0	.236		201-060-21	1.00	205-060-21	1.25	207-060-21	2.60
6.5	.256		201-065-21	1.00	205-065-21	1.25	207-065-21	2.80
7.0	.276		201-070-21	1.00	205-070-21	1.45	207-070-21	2.80
7.5	.295		201-075-21	1.00	205-075-21	1.45	207-075-21	2.80
8.0	.315	1	201-080-21	1.00	205-110-21	1.45	207-080-21	2.80
8.5	.335		201-085-21	1.45	205-120-21	1.70	207-085-21	2.80
9.0	.354		201-090-21	1.45	205-130-21	1.70	207-090-21	2.80
9.5	.374		201-095-21	1.45	205-140-21	2.00	207-095-21	2.80
10.0	.394		201-100-21	1.45	205-150-21	2.00	207-100-21	2.80
11.0	.433	1	201-110-21	1.45	205-110-21	2.00	207-110-21	2.80
12.0	.472		201-120-21	1.45	205-120-21	2.00	207-120-21	2.80
13.0	.512		201-130-21	1.45	205-130-21	2.00	207-130-21	2.80
14.0	.551		201-140-21	1.45	205-140-21	2.00	207-140-21	2.80
15.0	.591		201-150-21	1.45	205-150-21	2.00	207-150-21	2.80
20.0	.787	1	201-200-21	2.05	205-200-21	2.20	207-200-21	3.15
20.5	.799		201-203-21	2.05	205-203-21	2.20	207-203-21	3.15
25.0	.984		201-250-21	2.15	205-250-21	2.50	207-250-21	3.35
50.0	1.969		201-500-21	4.15	205-500-21	4.80	207-500-21	6.55
15cm x 4.57m			1	201-150-41	2.60	205-150-41	6.15	207-150-41	8.05
15cm x 5.48m								

†These single rolls are packaged in Bishop's new flat package (FLATPAK™). All other single rolls are packaged in a protective, clear plastic bag.

METRIC MEASURE (mm)

(MULTIPLE ROLL FLAT PACKAGING)

MM Tape Size	Std. Equiv. (Inches)	No. Of Rolls Per Pkg.	BLACK (T201) 18.3m		RED (T205) 16.5m		BLUE (T207) 16.5m	
			FlatPak Order No.	Price Per Pkg.	FlatPak Order No.	Price Per Pkg.	FlatPak Order No.	Price Per Pkg.
0.5	.020	5	201-005-25	\$4.75	205-005-25	\$4.50	207-005-25	\$4.50
1.0	.039		201-010-25	4.75	205-010-25	4.50	207-010-25	4.50
1.5	.059		201-015-25	4.75	205-015-25	4.50	207-015-25	4.50
2.0	.079		201-020-25	4.75	205-020-25	6.25	207-020-25	6.25
2.5	.098		201-025-25	4.75	205-025-25	6.25	207-025-25	6.25
3.0	.118	3	201-030-23	3.00	205-030-23	3.75	207-030-23	6.15
3.5	.138		201-035-23	3.00	205-035-23	3.75	207-035-23	6.80
4.0	.157		201-040-23	3.00	205-040-23	3.75	207-040-23	7.35
4.5	.177		201-045-23	3.00	205-045-23	3.75	207-045-23	7.35
5.0	.197		201-050-23	3.00	205-050-23	3.75	207-050-23	7.35

STANDARD MEASURE (inches)

(SINGLE ROLL PACKAGING)

Tape Size (Inches)	MM Equiv.	No. Of Rolls Per Pkg.	BLACK (T201) 20 yds		RED (T205) 18 yds		BLUE (T207) 18 yds	
			Order No.	Price Per Roll	Order No.	Price Per Roll	Order No.	Price Per Roll
0.15	0.38	1	201-015-11	\$.95	205-015-11	\$.90	207-015-11	\$.90
0.20	0.51		201-020-11	.95	205-020-11	.90	207-020-11	.90
0.26	0.66		201-026-11	.95	205-026-11	.90	207-026-11	.90
0.31	0.79		201-031-11	.95	205-031-11	.90	207-031-11	.90
0.40	1.02		201-040-11	.95	205-040-11	.90	207-040-11	.90
0.46	1.17	1	201-046-11	.95	205-046-11	.90	207-046-11	.90
0.50	1.27		201-050-11	.95	205-050-11	.90	207-050-11	.90
0.62	1.57		201-062-11	.95	205-062-11	.90	207-062-11	.90
0.70	1.78		201-070-11	.95	205-070-11	1.00	207-070-11	1.00
0.80	2.03		201-080-11	.95	205-080-11	1.00	207-080-11	1.00
0.93	2.36	1	201-093-11	.95	205-093-11	1.15	207-093-11	1.10
1.00	2.54		201-100-11	1.00	205-100-11	1.15	207-100-11	1.10
1.125	3.18		201-125-11	1.00	205-125-11	1.15	207-125-11	2.10
1.40	3.56		201-140-11	1.00	205-140-11	1.15	207-140-11	2.10
1.50	3.81		201-150-11	1.00	205-150-11	1.15	207-150-11	2.30
1.56	3.96	1	201-156-11	1.00	205-156-11	1.15	207-156-11	2.30
1.60	4.06		201-160-11	1.00	205-160-11	1.15	207-160-11	2.30
1.87	4.75		201-187-11	1.00	205-187-11	1.15	207-187-11	2.30
2.00	5.08		201-200-11	1.00	205-200-11	1.15	207-200-11	2.30
2.18	5.54		201-218-11	1.00	205-218-11	1.15	207-218-11	2.50
2.50	6.35	1	201-250-11	1.00	205-250-11	1.15	207-250-11	2.75
2.80	7.11		201-280-11	1.00	205-280-11	1.45	207-280-11	2.75
3.00	7.62		201-300-11	1.00	205-300-11	1.45	207-300-11	2.75
3.12	7.92		201-312-11	1.00	205-312-11	1.45	207-312-11	2.75
3.75	9.53		201-375-11	1.40	205-375-11	1.65	207-375-11	2.75
4.00	10.16	1	201-400-11	1.40	205-400-11	2.00	207-400-11	2.75
5.00	12.70		201-500-11	1.40	205-500-11	2.00	207-500-11	2.75
7.50	19.05		201-750-11	2.05	205-750-11	2.20	207-750-11	3.05
8.00	20.32		201-800-11	2.05	205-800-11	2.20	207-800-11	3.05
1.000	25.40		201-1000-11	2.15	205-1000-11	2.50	207-1000-11	3.30
2.000	50.80	201-2000-11	4.15	205-2000-11	4.80	207-2000-11	6.50	
6 in. x 5 yds		1	201-600-31	2.60	205-600-31	6.15	207-600-31	7.90
6 in. x 6 yds								

STANDARD MEASURE (inches)

(MULTIPLE ROLL FLAT PACKAGING)

Tape Size (Inches)	MM Equiv.	No. Of Rolls Per Pkg.	BLACK (T201) 20 yds		RED (T205) 18 yds		BLUE (T207) 18 yds	
			FlatPak Order No.	Price Per Pkg.	FlatPak Order No.	Price Per Pkg.	FlatPak Order No.	Price Per Pkg.
0.15	0.38	5	201-015-15	\$4.75	205-015-15	\$4.50	207-015-15	\$4.50
0.20	0.51		201-020-15	4.75	205-020-15	4.50	207-020-15	4.50
0.26	0.66		201-026-15	4.75	205-026-15	4.50	207-026-15	4.50
0.31	0.79		201-031-15	4.75	205-031-15	4.50	207-031-15	4.50
0.40	1.02		201-040-15	4.75	205-040-15	4.50	207-040-15	4.50
0.46	1.17	5	201-046-15	4.75	205-046-15	4.50	207-046-15	4.50
0.50	1.27		201-050-15	4.75	205-050-15	4.50	207-050-15	4.50
0.62	1.57		201-062-15	4.75	205-062-15	4.50	207-062-15	4.50
0.70	1.78		201-070-15	4.75	205-070-15	5.00	207-070-15	5.00
0.80	2.03		201-080-15	4.75	205-080-15	5.00	207-080-15	5.00
0.93	2.36	5	201-093-15	4.75	205-093-15	5.75	207-093-15	5.50
1.00	2.54		201-100-15	5.00	205-100-15	5.75	207-100-15	5.50
1.125	3.18		201-125-15	3.00	205-125-15	3.45	207-125-15	6.30
1.40	3.56		201-140-15	3.00	205-140-15	3.45	207-140-15	6.30
1.50	3.81		201-150-15	3.00	205-150-15	3.45	207-150-15	6.90
1.56	3.96	3	201-156-13	3.00	205-156-13	3.45	207-156-13	6.90
1.60	4.06		201-160-13	3.00	205-160-13	3.45	207-160-13	6.90
1.87	4.75		201-187-13	3.00	205-187-13	3.45	207-187-13	6.90
2.00	5.08		201-200-13	3.00	205-200-13	3.45	207-200-13	6.90

UNIVERSAL TARGET

© 1968 Bishop Graphics Inc.



Cat. No. 4038

QTY: 250 SYMBOLS PER PKG.
Price: \$9.10 Per Package

Solves common PC production problem of one target to meet needs of design engineer, photographer and PC draftsman. Features open center to allow photographer to locate tool master hairlines and photo reduction lines. V configurations on all four arms permit target alignment to grid line within a tolerance of $\pm .001''$ (0,025 mm). See illustration below.

X-ACTO KNIFE HOLDERS

Ideal for hundreds of precision cutting jobs.



Catalog No. 3101 (X-Acto No. 1) . . . \$1.15

X-ACTO REFILL BLADES

Order No. 3108, 5-blade pack 80¢
Order No. 3117, 100 blade pack \$11.21

Easy To Use! Lightweight

Catalog No. 3520

\$5.75



NEW! LOW COST 8X MAGNIFIER

Ideal for reading the precise images on Bishop's precision polyester ACCUSCALES (see pages 72 and 73). Features 8 power magnifier with a large, clear plastic 360° hood that admits maximum light for quick checking of artworks, scales and negatives. Easy to use. Lightweight.