

Designator	Comment	NOTE	Footprint	Description	Price Each	Board Qty	On Hand	Total Cost	Vendor	Vendor Catalog#	Manufacturer	Manufacturer Part#
U18	UA7805	HORIZONTAL MNT	TO-220AA	IC 5.0V 1.5A REGULATOR	0.75	1	-	0.75	Digi-Key	296-1974-5-ND	TI	UA7805CKC
U02	DS1811		TO-92	ECONORESET 5V 10% OPEN-DRN	1.11	1	-	1.11	Digi-Key	DS1811-10-ND	Dallas Semi.	DS1811
U17	MAX202		SO-16	IC TRANSCEIVER 5V RS232	3.31	1	-	3.31	Digi-Key	MAX202CSE-ND	Maxim	MAX202CSE
U01	5V Version		64TQF	IC AVR MCU 128K 16MHZ COM	12.16	1	-	12.16	Digi-Key	ATMEGA128-16AC-ND	Atmel	ATMEGA128-16AC
U04	XC95216		PQ160	5V ISP CPLD	26.15	1	-	26.15	Xilinx Online	XC95216-20PQ160I	Xilinx	XC95216-20PQ160I
U13...U16	ULN2803		SOL18-P-300	IC DARL SINK DVR 8CH 50V 0.5A	0.84	4	-	3.36	Digi-Key	ULN2803AFW-ND	Toshiba	ULN2803AFW
U5...U12	TD62783		SOP18-P-375	IC 8-CH DARL SOURCE DRVR	1.43	8	-	11.44	Digi-Key	TD62783AF-ND	Toshiba	TD62783AF(S)
U03	SN74LVTH244		20-SSOP	IC 3.3V OCT BUFF/DRIVER 20-SSOP	0.93	1	-	0.93	Digi-Key	296-1269-1-ND	TI	SN74LVTH244ADBR
X1	32.768 kHz		CM200S	CM200S Series Surface Mount Crystals	1.19	1	-	1.19	Digi-Key	300-1004-1-ND	Citizen	CM200S
X2	14.7456 MHz		HCM49	HCM49 Series Surface Mount Crystals	1.13	1	-	1.13	Digi-Key	300-6131-1-ND	Citizen	HCM49
--	DMC-16204	MOUNTED FACE UP	DMC-16204NYU-LY-B	LCD MODULE 16X2	36.42	1	-	36.42	Digi-Key	73-1069-ND	Optrex Am.	DMC-40218
OH1	PS2801-1-F3		4-SOP	PHOTOCOUPLER TRANS OUTPUT SMD	0.75	1	-	0.75	Digi-Key	PS2801-1CT-ND	NEC.	PS2801-1-F3
DB1	DF10S		DF-S	RECTFR 1A 1000V 4 PIN BRIDGE SMD	0.96	1	-	0.96	Digi-Key	DF10SDI-ND	Diodes Inc.	DF10S
D1,D2	ES2B-13		SMB	RECT SUPER FAST 100V 2A SMD SMB	0.68	2	-	1.36	Digi-Key	ES2BDICT-ND	Diodes Inc.	ES2B-13
D3,D4	MMBD4148		SOT-23	DIODE SWITCH 75V 350MW	1.71	2	-	3.42	Digi-Key	MMBD4148DICT-ND	Diodes Inc.	MMBD4148-7
LD001...LD512	HSMF-C165		1.6mm x 0.8 mm	Agilent HSMF-C165 Bi-Color SMD Chip LED Lamp	1.48	512	-	757.8	Kingbright	APTB1612ESGC	Kingbright	APTB1612ESGC
Q1...Q3	IRF7604		MICR-8	HEXFET (P) -20V -3.6A MICR-8	2.37	3	-	7.11	Digi-Key	IRF7604CT-ND	Int. Rectifier	IRF7604TR
R01,R02,R20...R27	10K		0805	RES 10.0K OHM 1/10W 1% 0805 SMD	0.09	10	-	0.90	Digi-Key	P10.0KCCT-ND	Panasonic	ERJ-6ENF1002V
R03	4.75 Kohm		0805	RES 4.75K OHM 1/10W 1% 0805 SMD	0.09	1	-	0.09	Digi-Key	P4.75KCCT-ND	Panasonic	ERJ-6ENF4751V
R04	1.24 Kohm		0805	RES 1.24K OHM 1/10W 1% 0805 SMD	0.09	1	-	0.09	Digi-Key	P1.24KCCT-ND	Panasonic	ERJ-6ENF1241V
R05...R07	47.5 Kohm		0805	RES 47.5K OHM 1/10W 1% 0805 SMD	0.09	3	-	0.27	Digi-Key	P47.5KCCT-ND	Panasonic	ERJ-6ENF4752V
R30...R93	562 ohm		0805	RES 562 OHM 1/10W 1% 0805 SMD	0.09	64	-	5.76	Digi-Key	P562CCT-ND	Panasonic	ERJ-6ENF5620V
VR1	10 Kohm		SMD 4MM	POT SMD 4MM SQ CERMET 10K OHM	0.85	1	-	0.85	Digi-Key	3364W-103ECT-ND	Bourns	3364W-1-103E
C01...C05,C10...C14,C20...C29,C30...C37,C42	0.1µF 16V		0805	CAP 0.1µF 16V PPS SMD 0805	0.16	24	-	3.84	Digi-Key	PCC1812CT-ND	Panasonic	ECJ-2VB1C104K
C07,C08	22pF 50V		0805	CAP 22PF 50V CERM CHIP 0805 SMD	0.08	2	-	0.16	Digi-Key	PCC220CNCT-ND	Panasonic	ECJ-2VC1H220J
C40,C41	22µF 16V		1812	CAP 22UF 16V CERAMIC 1812 Y5V	2.61	2	-	5.22	Digi-Key	PCC2184CT-ND	Panasonic	ECJ-5YF1C226Z
C06	10µF 16V		1812	CAP 10µF 16V CERAMIC 1812 Y5V	2.61	1	-	2.61	Digi-Key	PCC2183CT-ND	Panasonic	ECJ-5YF1V106Z
--	JUMPER Female		100 mil	Shorting Jumper Black	0.05	2	-	0.10	Mouser	151-8000		
JP1,JP2	JUMPER		100 mil	ST SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929834-04-36-ND	3M	929 Series
J1,J2	Header 1x2		100 mil	ST SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929834-04-36-ND	3M	929 Series
CN1	Header 1x3+1x6		100 mil	ST SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929834-04-36-ND	3M	929 Series
CN2	Header 2x5		100 mil	ST DOUBLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929836-04-36-ND	3M	929 Series
CN3	Header 1x4		100 mil	ST Right Angle, SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929835-01-36-ND	3M	929 Series
CN4	conn. LCD, Header 1x14		100 mil	ST SINGLE-ROW MALE HEAD SOLDER Connector Header	0.00	1	-	0.00	Digi-Key	929836-04-36-ND	3M	929 Series
CN5	Header 1x2		100 mil	ST SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929834-04-36-ND	3M	929 Series
CN6	Header 2x5		100 mil	ST DOUBLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929836-04-36-ND	3M	929 Series
CN7	Header 1x6		100 mil	ST Right Angle, SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929835-01-36-ND	3M	929 Series
CT1	Header 1x3		100 mil	ST SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929834-04-36-ND	3M	929 Series
CT2	Header 1x8		100 mil	ST SINGLE-ROW MALE HEAD SOLDER Connector Header	1.44	1	-	1.44	Digi-Key	929834-04-36-ND	3M	929 Series
SW0	PTS525SM10SM		SMT	SWITCH TACT SMT SPST 130GF	0.75	1	-	0.75	Digi-Key	CKN902OCT-ND	C&K Comp.	PTS525SM10SM
PCB	220mm x L 215mm			Printed Circuit Board, APCircuits, Alberta, Canada	250.00	1	-	250.0				

Total Board Cost = 1095.14

Color legend:

Changed parts
Added parts
Missing parts
Not used parts
Ordering Data

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