

Item #	Qty	Reference Designator	Description	Package	Manufacturer	Part No.	Digikey Part No.
1	2	C10 C11	Capacitor, Ceramic, 22pF, 100V, X7R, 1206	1206	SAMSUNG ELECTRO-MECHANICS AMERICA, INC	CL31C220JCCNNNC	1276-2820-1-ND
2	1	C7	Capacitor, Ceramic, 0.01uf, 10%, 50V, X7R	1206	SAMSUNG ELECTRO-MECHANICS AMERICA, INC	CL31B103KBCNNNC	1276-1035-1-ND
3	9	C1 C3 C5 C6 C8 C9 C12 C13 C14	Capacitor, Ceramic, 0.1uf, 10%, 50V, X7R	1206	KEMET ELECTRONICS CORPORATION	C1206C104K5RACTU	399-1249-1-ND
4	2	C2 C4	Capacitor, Tantalum, 33uf, 10%, 20V	1206	KEMET ELECTRONICS CORPORATION	T491D336K020AT	399-3788-1-ND
CH0 CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16 CH17 CH18 CH19 CH20 CH21 CH22 CH23 CH24 CH25 CH26 CH27 CH28 CH29 CH30 CH31 CH32 CH33							
5	40	CH34 CH35 CH36 CH37 CH38 CH39	Relay, PhotoMOS, 600V	8-SMD	Panasonic Electric Works	AQW216A	255-1969-ND
6	4	DS1 DS2 DS3 DS4	LED, Vis, Solid State, Green	1206	KINGBRIGHT COMPANY LLC	APL3015SGC-F01	754-1111-1-ND
7	1	IC1	IC, MCU 8bit 32KB FLASH 28DIP	28DIP	ATMEL	ATMEGA328P-PU	ATMEGA328P-PU-ND
8	1	J1	Connnection Header, 4 Position, .200, RT ANG	header	Molex Inc	15-24-4441	WM6988-ND
9	1	J2	Connector, PCB, Right Angle, 10 Position	header	OMRON ELECTRONICS INC	XG4A-1034	OR1001-ND
10	2	J3 J4	Connector, PCB, Right Angle, SMA	header	TE CONNECTIVITY	5-1814400-1	A97593-ND
11	1	J5	Connector, 0.05", Right Angle Header, 40 Position	header	Samtec Inc	TFML-120-01-S-D-RA	SAM8266-ND
12	3	JP1 JP2 JP3	Male Headers Pins, 0.1" spacing, 2x1	header	Harwin Inc	M20-9990246	952-2121-ND
13	1	P1	Male Headers Pins, 0.1" spacing, 6x1, R/A	header	SULLINS CONNECTOR SOLUTIONS	PRPC006SBAN-M71RC	S1111EC-06-ND
14	1	P2	Male Headers Pins, 0.1" spacing, 3x2	header	HARWIN INC	M20-9980346	952-2121-ND
R2 R3 R4 R5 R8 R9 R10 R11 R14 R15 R16 R17 R20 R21 R22 R23 R26 R27 R28 R29 R32 R33 R34 R35 R38 R39 R40 R41 R46 R47 R48 R49 R52 R53 R54 R55 R58 R59 R60 R61 R63 R65 R66 R67 R69 R71 R72 R73 R76 R77 R78 R79 R82 R83 R84 R85 R88 R89 R90 R91 R94 R95 R96 R97 R102 R103 R104 R105 R108 R109 R110 R111 R113 R115							
15	80	R116 R117 R119 R121 R122 R123	Resistor, Metal Film, 374, 1%, 1/4W	1206	Yageo	RC1206FR-07374RL	311-374FRCT-ND
16	4	R45 R100 R125 R126 R127	Resistor, Metal Film, 1k, 1%, 1/4W, 1206	1206	STACKPOLE ELECTRONICS INC	RMCF1206FT1K00	RMCF1206FT1K00CT-ND
R1 R6 R7 R12 R13 R18 R19 R24 R25 R30 R31 R36 R37 R42 R44 R50 R51 R56 R57 R62 R64 R68 R70 R74 R75 R80 R81 R86 R87 R92 R93 R98							
17	40	R101 R106 R107 R112 R114 R118 R120 R124	Resistor, Metal Film, 4.75k, 1%, 1/8W	1206	Yageo	RC1206FR-074K75L	311-4.75KFRCT-ND
18	1	R43	Resistor, Metal Film, 10k, 1%, 1/4W, 1206	1206	STACKPOLE ELECTRONICS INC	RMCF1206FT10K0	RMCF1206FT10K0TR-ND
19	1	R99	Resistor, Metal Film, 1M, 1%, 1/4W, 1206	1206	STACKPOLE ELECTRONICS INC	RMCF1206FT1M00	RMCF1206FT1M00TR-ND
20	3	S1 S2 S3	Shunt Jumper .1"	N/A	3M	969102-0000-DA	3M9580-ND
21	1	SW1	Switch Tactile, SPST-NO, 0.05A 12V	button	C&K Components	PTS645SK43 LFS	CKN9090-ND
22	1	U6	IC Quad 2-IN NAND Gate	14-SOIC	Texas Instruments	SN74LV00ADR	296-1670-1-ND
23	5	U1 U2 U3 U4 U5	IC Shift Register 8-BIT	16-SOIC	Fairchild Semiconductor	MM74HC595MX	MM74HC595MXCT-ND
24	1	X1	Crytal 16MHZ 18pF	HC49/US	CITIZEN FINETECH MIYOTA	HC49US-16.000MABJ-UB	300-8499-ND

Note: S1-3 do not need to be placed