

Comment	Description	Designator	Footprint	Label	Quantity
L3	Inductor	04041NC	0402-A	Inductor	3
100UF	Cap CER 0.1UF 50V X7R 0805	C1, C2, C3, C6, C8, C16, C17, C18, C23	PP-C0805C-DN-MFG	CHP-2007-00279-2	9
1UF	Cap CER 0.1UF 50V X7R 0805	C4, C10	PP-C0805C-DN-MFG	CHP-2007-00279-2	2
1.5UF	Cap CER 0.1UF 50V X7R 0805	C5	PP-C0805C-DN-MFG	CHP-2007-00279-2	1
1000PF	Cap CER 0.1UF 50V X7R 0805	C7, C9, C11, C15, C19, C22	PP-C0805C-DN-MFG	CHP-2007-00279-2	6
1000PF	Cap CER 0.1UF 50V X7R 0805	C12, C25	PP-C0805C-DN-MFG	CHP-2007-00279-2	2
22PF	Cap CER 0.1UF 50V X7R 0805	C13, C14	PP-C0805C-DN-MFG	CHP-2007-00279-2	2
Cap2	Capacitor	C21, C26, C27	CAPES-4X5	Cap2	4
0.1UF	Cap CER 0.1UF 50V X7R 0805	C24	PP-C0805C-DN-MFG	CHP-2007-00279-2	1
RED	LED GREEN CLEAR CHIP SMD	D1, D3	PP-LTST-C1900KT-MFG	CHP-22017-000005-2	2
1M414BW-7-F	Fast Switching Diode, 100 V, 0.15 A, -45 to 150 degC, 2- Pin SMD (1212), RoHS, Tape and Reel	D02	080CO-SD0123-2_V	CHP-2000-04932-2	1
Res2	Resistor	FB	AXIAL-0.4	Res2	1
61300311121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 3 pins	J1	61300311121	CHP-1502-01062-1	1
ARDUINXHEADER	Male Header, Pitch 2.54 mm, 1 x 6 Position, Height 10.03 mm, Tail Length 3.56 mm, -55 to 105 degC, Bulk	J2	TECO-640456-6_V	CHP-2000-05661-1	1
61300811121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 8 pins	J3, J4	61300811121	CHP-1502-01076-1	2
61301021121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Dual Row, 10 pins	J5	61301021121	CHP-1502-01084-1	1
61300211121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 2 pins	J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J18	61300211121	CHP-1712-00002-4	11
47589-0001	Right Angle Female Type A0 Pitch USB Connector, 30 V, 1.8 A, -30 to 85 degC, RoHS, Tape and Reel	J16	MDLX-47589-0001_V	CHP-2000-05610-1	1
50 MIL KEYED SMD	Fully Integrated Proximity and Ambient Light Sensor with Infrared Emitter, I2C Interface, and Interrupt Function, 2.5 to 3.6 V, -25 to 85 degC, 16-Pin SMD, RoHS, Tape and Reel	J17	VISH-VCM4020-0208_V	CHP-2000-07387-1	1
Inductor	Inductor	L1, L2, L5	0402-A	Inductor	3
BSS138LT3G	N-Channel MOSFET	Q1, Q2	E3	MOSFET-N	2
270		R1, R18	RESC1005X40X25ML05 T10	CHP-1011-00001-2	2
ZERO		R2, R3, R4, R5, R12, R13, R15, R17, R19, R20, R21, R22, R24, R25	RESC1005X40X25ML05 T10	CHP-1011-00001-2	14
10K		R6, R7, R8	RESC1005X40X25ML05 T10	CHP-1011-00001-2	3
10K/NC		R9, R10	RESC1005X40X25ML05 T10	CHP-1011-00001-2	2
20R		R11	RESC1005X40X25ML05 T10	CHP-1011-00001-2	1
2R		R14, R16	RESC1005X40X25ML05 T10	CHP-1011-00001-2	2
100		R23	RESC1005X40X25ML05 T10	CHP-1011-00001-2	1
3K2		R26, R27	RESC1005X40X25ML05 T10	CHP-1011-00001-2	2
SW TACT	Switch	SW1, SW2	SPST-2	SW-PB	2
5004	IC TEST POINT MINATURE YELLOW	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19	PP-5004-MFG	CHP-2000-05575-2	19
5V 350W	DIODE SCHOTTKY 200V POWER12123	TVS1	PP-Power01123-MFG	CHP-2000-07540-2	1
PAN1740	RF TXRX MOD BLUETOOTH CHIP ANT	U1	PP-BNW-8946A10F-MFG	CHP-05527-000002-1	1
W25X20CL	Infrared Encoder/Decoder, PSOP, Extended Temperature	U2	PCSP300-P8	CHP-0186-00092-2	1
GRD-EYE-SENSOR	SENSOR DIGTL 140MD MODULE	U3	PP-APG28B34-MFG	CHP-05553-000001-1	1
TPD2EUSB30	USB Solution for Super-Speed (5 Gbps) USB 3.0 Interface, 2 Channels, -40 to +85 degC, 3-pin SOT (QW-T), Green (RoHS & No Sn/Bi)	U4	DRT10003A	CHP-0326-00046-3	1
SAH L21G	IC MCU 32BIT 256KB FLASH 14QFN	U5	PP-PE-MFG	CHP-06276-000162-1	1
NX1117CE33Z	TVS DIODE 5.5V 450P	U6	PP-02Z00044-MFG	CHP-2000-04961-2	1
32.768KHz	Crystal Oscillator	V1	R3B	XTAL	3
100Hz	Low Frequency Crystal, 12.368 KHz, -40 to 85 degC, 4-Pin SMD, RoHS, Tape and Reel	V2	ABRA-AB525-4_V	CHP-2000-05037-1	1