

	Quantity	Reference Designator	Manufacturer	PN	Description
	8	C1, C3	Samsung	CL21A106KOQNNNG	CAP CER 10UF 16V X5R 0805
	20	C2, C4, C5, C6, C9	Samsung	CL21B104KBCNNNC	CAP CER 0.1UF 50V X7R 0805
	8	C7, C8	Samsung	CL21C300JBANNNC	CAP CER 30PF 50V C0G/NP0 0805
	4	D1	SMC Diode	10BQ030TR	DIODE SCHOTTKY 30V 1A SMB
	8	D2, D3	Würth Elektronik	150080GS75000	LED GREEN CLEAR 0805 SMD
	4	J1	Harwin	M20-9980345	CONN HEADER VERT 6POS 1 ROW 2.54MM
	4	J2	Sullins	PRPC006SAAN-RC	CONN HEADER VERT 6POS 2 ROW 2.54MM
	4	J3	Wurth	629105136821	CONN RCPT USB2.0 MICRO B SMD R/A
	4	J4	CUI	PJ-202A	CONN PWR JACK 2X5.5MM KINKED PIN
	4	Q1	Nexperia	PMV45EN2R	MOSFET N-CH 30V SOT23
	8	R1, R6	Yageo	RC0805FR-0710KL	RES SMD 10K OHM 1% 1/8W 0805
	16	R2, R3, R4, R5	Yageo	RC0805FR-071KL	RES SMD 1K OHM 1% 1/8W 0805
	8	R7, R8	Yageo	RC0805JR-070RL	RES SMD 0 OHM JUMPER 1/8W 0805
	4	SW1	C&K	RS-187R05A2-DS MT RT	SWITCH TACTILE SPST-NO 0.05A 12V
	4	U1	ON Semiconductor	NCP1117ST50T3G	IC REG LINEAR 5V 1A SOT223
	4	U4	Microchip	ATMEGA328P-PU	IC MCU 8BIT 32KB FLASH 28DIP
	4	X1	ECS	ECS-160-18-5PX-TR	CRYSTAL 16.000 MHZ 18PF SMD
	4	J5	Sullins Connector Solutions	PPPC101LFBN-RC	Rectangular Connectors
	4	Connected to Pin 8, 7 of J5	SunFounder	B019K5X53O	LCD 1602 16x2 Serial Interface Adapter Module
	16	Connected to pin 6, 5, 4, 3 of J5	VISHAY	TCRT5000	IR Reflective Sensor