





Comment	Description	Designator	Footprint	LibRef	Quantity
18pF	CAPACITOR 0603 CERAMIC	C1, C2	0603C-GENERIC	0603C-15PF-50V-C0G-MUR	2
10uF	CAPACITOR 0805 CERAMIC	C3, C4, C5, C6, C7, C8, C10, C11, C12	0805C-GENERIC	0805C-10UF-25V-X5R-SAM	9
XH4 2.54 H	4 PIN XH 2.54	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	XH4 2.54 H	XH4 2.54 H	11
DC/DC XL6009E1		M1, M2	DCDC XL6009E1	DC/DC XL6009E1	2
Header 9	Header, 9-Pin	P1	HDR1X9	Header 9	1
IRLR2905	N CHANNEL MOSFET	Q1	TO252AA-GDS	IRLR2905	1
BC847BPN	NPN/PNP General-purpose Transistors	Q2	SOT363_N	BC847BPN	1
BSS138	N CHANNEL MOSFET	Q3, Q4, Q5, Q6	SOT23-GDS	BSS138	4
680R	RESISTOR 0805 1/4 WATT THIN FILM	R1, R2, R3, R4, R5	0805R-680	0805R-680	5
1K2	RESISTOR 0805 1/4 WATT THIN FILM	R6, R7, R8, R9, R10	0805R-1K2	0805R-1K2	5
10K	RESISTOR 0805 1/4 WATT THIN FILM	R11, R12, R13, R14, R15, R16, R17, R18, R19, R20	0805R-10K	0805R-10K	10
ATmega328P-AU	8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 32-pin TQFP, Industrial Grade (40°C to 85°C)	U1	32A_N	ATmega328P-AU	1
SOP-14		U2	SO14	WS2801	1
W25Q32	W25Q32	U3	SO8	W25Q32	1
LD1117-SOT223		VR1, VR2	SOT223	LD1117-SOT223	2
16MC	16MHZ CRSYTAL HC49US	X1	HC49_US TH	16MC-HC49US TH	1