





Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	Ceramic Chip Capacitor - Standard	C1, C2, C3, C4, C5, C7, C10, C11, C13, C15, C18	0603	C0603	11
4u7	Ceramic Chip Capacitor - Standard	C6	0805	C0805	1
1uF	Ceramic Chip Capacitor - Standard	C8	0603	C0603	1
10nF	Ceramic Chip Capacitor - Standard	C9	0603	C0603	1
10uF	Ceramic Chip Capacitor - Standard	C12, C16, C17	0805	C0805	3
22uF	Aluminum Electrolytic Capacitor, Radial Style with Long Leads: 47uF, 35V	C14, C19	CAPPR2-5X11	EKA00AA247F00	2
LED_RED	High Performance Chip LED, Red	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33	1.6X0.8X0.8	HSMZ-C190	33
TERMINAL BLOK 2	2 pins1 Terminal blok	P1, P5	TERMINAL BLOK 2	TERMINAL BLOK 2	2
Header 10X2	Header, 10-Pin, Dual row	P2	HDR2X10	Header 10X2	1
ICSP	Header, 3-Pin	P3	HDR1X3	Header 3	1
Header 17	Header, 17-Pin	P4	HDR1X17	Header 17	1
MMBT2222	NPN General-purpose Transistor	Q1	SOT23_N	BC817	1
BSS123	N-channel Enhancement Mode Vertical D-MOSFET	Q2, Q3, Q4	SOT23_N	BSS123	3
3K3	Rectangular Thick Film Chip Resistor, 10 Ohm to 330k Ohm Range, 0.1% and 0.5% Tolerance, 0603 Size, 0.063 W	R1, R2, R3, R4, R5, R6, R8, R9, R10, R11, R12, R13, R14, R15, R16, R18, R20, R21, R22, R23, R24, R25, R28, R30, R33, R39, R40, R41, R44, R45, R46, R47, R48	ERA-0603	ERA3Y	33
1K	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	R7	ERA-0603	ERA6Y	1
10K	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	R17, R19, R26, R27, R35, R36, R42, R43	ERA-0603	ERA6Y	8
NF	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	R29, R31, R32, R34, R37, R38	ERA-0603	ERA6Y	6
SN74HC595D	8-Bit Shift Register with 3-State Output Registers	U1, U3, U5, U6	D016_N	SN74HC595D	4
MAX485	Differential Bus Transceiver	U2	D008_L	SN75176BD	1
STM32F030F4P6	ARM Cortex-M0 32 bit MCU, 16 KB Flash, 4 KB Internal RAM, 15 I/Os, 20-pin TSSOP, -40 to 85 degC, Tube	U4	STM-TSSOP20_N	STM32F030F4P6	1
L78M05CDT-TR	Positive Voltage Regulator, 5V, 3-Pin DPAK, Tape and Reel	U7	TO-252_N	L78M05CDT-TR	1
REG1117-3.3	800mA and 1A Low	U8	ZZ311	REG1117-3.3	1