

Item	Ref Des	Value	MPN	Description	Vendor	VPN
10	PCB	PCB	9041981	RAW PCB	JLPCB	9041981
20	C1	8.90324E+11	890324023015CS	CAP FILM 0.047UF 10% 275VAC RAD	Mouser	710-890324023015CS
30	C2, C10, C12, C13, C14, C15	0.1uF	CC0603JPX7R9BB104	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0.1uF 5% 50V High Capacitanc	Mouser	603-CC0603JPX79BB104
40	C3	10uF	C3216X7R1C106K160AC	Capacitors MLCC - SMD/SMT 1206 16V 10uF X7R 10% T: 1.6mm	Mouser	810-C3216X7R1C106K
50	C4, C5	.01uF	CC0603JRX7R8BB103	Multilayer Ceramic Capacitors MLCC - SMD/SMT 10nF 25V X7R 5%	Mouser	603-CC603JRX7R8BB103
60	C6, C18	47uF	EMK316BBJ476ML-T	Multilayer Ceramic Capacitors MLCC - SMD/SMT 1206 16VDC 47uF 20% X5R	Mouser	963-EMK316BBJ476ML-T
70	C7	2200pF	C0603C22J8RACTU	Multilayer Ceramic Capacitors MLCC - SMD/SMT 10V 2200pF 0603 X7R 5%	Mouser	80-C0603C22J8R
80	C8, C11, C16, C17	27pF	C0603C270J5GACAU07411	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 27pF COG 0603 5% AEC-Q200	Mouser	80-C0603C270J5GAULR
90	C9	100uF	TAJB107M010RNJ	Tantalum Capacitors - Solid SMD 10volts 100uF 20%	Mouser	581-TAJB107M010R
100	D1	PTVS7V0S1UR	PTVS7V0S1UR,115	ESD Suppressors / TVS Diodes TVS DIODE PROTECT Diode	Mouser	771-PTVS7V0S1UR115
110	D2, D3	BAT750-7-F	BAT750-7-F	Schottky Diodes & Rectifiers 40V 0.75A	Mouser	621-BAT750-F
120	F1	37006300410	37006300410	Fuses with Leads (Through Hole) 250V IEC SL .630A TR5	Mouser	576-37006300410
130	F2	0451005.NRL	0451005.NRL	Surface Mount Fuses 125VAC 5A .0125ohms 451 NANO2	Mouser	576-0451005.NRL
140	IO	826936-6	826936-6	Headers & Wire Housings 6P SINGLE ROW	Mouser	571-826936-6
150	J1	1935174	1935174	Fixed Terminal Blocks PT 1.5/3-5.0-H	Mouser	651-1935174
160	J2	ICSP	61300621121	Headers & Wire Housings WR-PHD 2.54mm Hdr 6P Dual Str Gold	Mouser	710-61300621121
170	K1	G6DN-1A-SLDC5	G6DN-1A-SL DCS	General Purpose Relays Slim PCB Power Relay SPST 5A 50Kops	Mouser	653-G6DN-1A-SL-DC5
180	L1	RFB0807-470L	RFB0807-470L	Fixed Inductors RFB0807 AEC-Q200 100kHz 0.19mOhms	Mouser	994-RFB0807-470L
190	L2	RFB0807-220L	RFB0807-220L	Fixed Inductors RFB0807 AEC-Q200 100kHz 0.1mOhms	Mouser	994-RFB0807-220L
200	Q1	BC547BTA	BC547BTA	Bipolar Transistors - BJT NPN 45V 100mA HFE/450	Mouser	512-BC547BTA
210	Q2	2N7002	2N7002L	MOSFET FET 60V 7.5 MOHM SOT23	Mouser	512-2N7002L
220	Q4	MUN2214T1	MUN2214T1G	Bipolar Transistors - Pre-Biased 50 V Dual NPN BiPolar DRT	Mouser	863-MUN2214T1G
230	R1, R10, R12	1K	CRGP0603F1K0	Thick Film Resistors - SMD CRGP 0603 1K0 1% SMD Resistor	Mouser	279-CRGP0603F1K0
240	R11, R15, R17, R19, R20	10K	CRCW060310K0FKEA	Thick Film Resistors - SMD 1/10watt 10Kohms 1%	Mouser	71-CRCW0603-10K-E3
250	R14	4.7K	ERJ-3EKF4701V	Thick Film Resistors - SMD 0603 4.7Kohms 1% AEC-Q200	Mouser	667-ERJ-3EKF4701V
260	R2	1M	ERJ-P06F1004V	Thick Film Resistors - SMD 0805 1.0Mohms 0.5W 1% Tol AEC-Q200	Mouser	667-ERJ-P06F1004V
270	R3	100	ESR03EZPF1000	Thick Film Resistors - SMD 0603 100ohm 1% Anti Surge AEC-Q200	Mouser	755-ESR03EZPF1000
280	R4, R5	22	CRCW060322R0FKEAC	Thick Film Resistors - SMD 1/10Watt 22ohms 1% Commercial Use	Mouser	71-CRCW060322R0FKEAC
290	R6	220K	ERJ-P06F2203V	Thick Film Resistors - SMD 0805 220Kohms 0.5W 1% AEC-Q200	Mouser	667-ERJ-P06F2203V
300	R7, R16	2.2M	CRCW06032M20FKEA	Thick Film Resistors - SMD 1/10watt 2.2Mohms 1%	Mouser	71-CRCW06032M20FKEA
310	R8	150K	CRCW0603150KFKEAC	Thick Film Resistors - SMD 1/10Watt 150Kohms 1% Commercial Use	Mouser	71-CRCW0603150KFKEAC
320	R9	33K	SFR03EZPF3302	Thick Film Resistors - SMD 0603 33Kohms 1% Anti-Sulfur AEC-Q200	Mouser	755-SFR03EZPF3302
330	RDY	155060B575300	155060B575300	Standard LEDs - SMD WL-SMSW Wtrclr SdVw Blue 3.2V 20mA 465nm	Mouser	710-155060B575300
340	T1	78250JC	78250MC	Power Transformers 2mH 69pF 6 pin SM	Mouser	580-78250MC
350	U1	V250LA4P	V250LA4P	Varistors 250V pF	Mouser	576-V250LA4P
360	U2	H11AA1-X007T	H11AA1-X007T	Transistor Output Optocouplers Phototransistor Out AC-In Single CTR 20%	Mouser	782-H11AA1-X007T
370	U3	TDA5051A	TDA5051AT/C1,518	IC HOME AUTOMATION MODEM 16SOIC	Mouser	771-TDA5051ATD-T
380	U4	HLK-PM01	HLK-PM01	AC-DC 220V to 5V Step-Down Power Supply Module	Amazon	HLK-PM01
390	U6	ATMEGA328P-AU	ATMEGA328P-AU	8-bit Microcontrollers - MCU 32KB In-system Flash 20MHz 1.8V-5.5V	Mouser	556-ATMEGA328P-AU
400	X1	CRYSTALHC49U-V	HC-49/U-S8000000ABJB	Crystals 8MHz 18pF HC49S THROUGH HOLE	Mouser	695-HC49US-8.0ABJB
410	X2	ABL-16.000MHz-B4Y	ABL-16.000MHz-B4Y	Crystals 16MHz 18pF THROUGH HOLE	Mouser	815-ABL-16-B4Y