



Designator	Quantity	LCSC Part #	Description	Comment	LibRef	Footprint	Supplier 1	Supplier Part Number 1
A1		1		ESP32-WROOM-32D	ESP32-WROOM-32D	ESP32-WROOM-32D		
BR1		1	Bridge Rectifier 100V 0.8A MiniDIP SMD4	DB 100V 0A8	DB 100V 0A8	miniDIP 4	Digi-Key	HD01D1CT-ND
C1, C6		2	Cap Ceramic 0.1uF 50V X7R 20% SMD 0603 125°C Paper T/R	100n 50V	CAP 100n 50V 0603	CAP 0603 HD	Digi-Key	1276-1941-1-ND
C2		1	SAMSUNG ELECTRO-MECHANICS - CL21A106K00NNNE - SMD Multilayer Ceramic Capacitor, 10 µF, 16 V, 0805 [2012 Metric], ± 10%, XSR, CL Series	10u 16V	CAP 10u 16V 0805	CAP 0805 LD	Digi-Key	1276-1096-1-ND
C3		1	SAMSUNG ELECTRO-MECHANICS - CL10B105KABNNNC - SMD Multilayer Ceramic Capacitor, 1 µF, 25 V, 0603 [1608 Metric], ± 10%, X7R, CL Series	1u 25V	CAP 1u 25V 0603	CAP 0603 MD	Digi-Key	1276-1184-1-ND
C4		1		100u 50V	CAP-EL 100u 50V	ELECTROLYTIC CAP D8 Lifted		
C5		1	KEMET - C0603C103M5RACTU - SMD Multilayer Ceramic Capacitor, 10000 pF, 50 V, 0603 [1608 Metric], ± 20%, X7R, C Series KEMET	10n 50V	CAP 10n 50V 0603	CAP 0603 HD	Digi-Key	399-7842-1-ND
C7		1	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 1500pF X7R 0603 10% Tol	1n5 50V	CAP 1n5 50V 0603	CAP 0603 HD	Digi-Key	478-13035-1-ND
C8		1		220u 16V	CAP-EL 220u 16V	ELECTROLYTIC CAP D6.3 Lifted		
D1		1	DIODE SCHOTTKY 50V 1A SMAE	DS -50V 700mV 1A	DS -50V 700mV 1A	DO-214AC	Digi-Key	SS15E-TPMSCT-ND
D2, D3		2	DIODE FS 100V 150MA SOT363	D -75V A150 x3	D -75V A150 x3	SOT-363	Digi-Key	BAS16TWO-13R-FDICT-ND
K1, K2, K3, K4, K5		5	OPTOISOLATOR 3.75KV TRIAC 6SO 4L	TLP266J	TLP266J	11-4M1S MD	Digi-Key	TLP266J(T7-TPLECT-ND
L1		1	FIXED IND 150UH 610MA 949 MOHM	150u A560 R949	IND 150u 560mA	IND 5050X45 MD	Digi-Key	445-174857-1-ND
P1		1	Header, 3-Pin	Header 3	Header 3	HDR1X3		
P2, P3		2	Header, 2-Pin	Header 2	Header 2	HDR1X2		
R1, R2		2	PANASONIC - ERJ-3EKF100ZV - THICK FILM CHIP RES, 0603, 1%, PRECISION	10k 1% 0W1	RES 10k 0603 1% 0W1	RES 0603 MD	Digi-Key	P10.0KHCT-ND
R3		1	SUSUMU RL1220S-R50-F SMD Current Sense Resistor, 0.5 ohm, 0805 [2012 Metric], 250 mW, 1%, RL Series	0R5 1% 0W33	RES 0R5 0805 1% 0W33	RES 0805 HD	Digi-Key	RL12S50FCT-ND
R4		1	RES SMD 36k OHM 0.5% 1/16W 0603	36k 0.5 52m5	RES 36k 0603 0%5 62m5	RES 0603 HD	Digi-Key	RR08P36.0KDCT-ND
R5		1	Res Thick Film 0603 22k 0hm 1% 1/10W 100ppm/C Molded SMD SMD Paper T/R	22k 1% 0W1	RES 22k 0603 1% 0W1	RES 0603 HD	Digi-Key	RMCF0603G22K0CT-ND
R6		1	TE CONNECTIVITY - CRGCO0603F12K - SMD Chip Resistor, 0603 [1608 Metric], 12 kohm, CRGCO Series, 75 V, Thick Film, 100 mW	12k 1% 0W1	RES 12k 0603 1% 0W1	RES 0603 HD	Digi-Key	A129701CT-ND
R7, R8, R9, R10, R11		5	TE CONNECTIVITY - CRGCO0603F56R - SMD Chip Resistor, 0603 [1608 Metric], 56 ohm, CRGCO Series, 75 V, Thick Film, 100 mW	56 1% 0W1	RES 56 0603 1% 0W1	RES 0603 HD	Digi-Key	A129673CT-ND
R12, R13, R14, R18, R19		5	RES 100k OHM 1% 1/10W 0603	100k 1% 0W1	RES 100k 0603 1% 0W1	RES 0603 HD	Digi-Key	RMCF0603F100KCT-ND
R15, R16, R17, R20, R21		5	PANASONIC - ERJ-3EKF100ZV - THICK FILM CHIP RES, 0603, 1%, PRECISION	10k 1% 0W1	RES 10k 0603 1% 0W1	RES 0603 HD	Digi-Key	P10.0KHCT-ND
U1, U3, U4		3	TEXAS INSTRUMENTS - SN74LVC126APWR - NON INVERTING BUS BUFFER GATE TSSOP14	SN74LVC126APWR	SN74LVC126APWR	TSSOP-14 MD	Digi-Key	296-8458-1-ND
U2		1	ON SEMICONDUCTOR NCP3064BDR2G DC-DC Switching Buck, Boost, Inverting Regulator, Adj., 3V-40Vin, 1.25V-40V/1.5A out, 150kHz, SOIC-8	NCP3064BDR2G	NCP3064BDR2G	soic-8 md	Digi-Key	NCP3064BDR2GO SCT-ND