

Bill Of Materials for PowerBoardEsp32_mcp

Design Title PowerBoardEsp32_mcp
Author
Document Number
Revision
Design Created sabato 30 settembre 2023
Design Last Modified venerdì 1 dicembre 2023
Total Parts In Design 56

0 Modules

Quantity	References	Value	LCSC Part #	Footprint
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Sub-totals:

13 Capacitors

Quantity	References	Value	LCSC Part #	Footprint
3	C1,C2,C4	CL31A106KBHNNNE	C13585	CAPC3216X180N
1	C3	10uF 50V	C13585	CAPC3216X180N
2	C5,C9	100nF	C344189	CAPC1005X55
1	C6	22uF	C86295	CAPC1608X90N
1	C7	100nF	C344189	CAPC1005X55N
1	C8	10uF	C13585	CAPC3216X140
1	C11	10nF	C60133	CAPC1005X55
1	C12	22uF	C86295	CAPC1608X87
2	C13,C17	10uF/0402/10V	C5252392	CAPC1005X55N

Sub-totals:

11 Resistors

Quantity	References	Value	LCSC Part #	Footprint
3	R1,R7,R11	4.7k		RESC1005X40
1	R2	49.9k	C325573	RESC1005X40
4	R3,R8,R9,R10	0.15Ohm		RESC6432X70
1	R4	9.53k	C3015823	RESC1005X40
1	R5	10k	C2906885	RESC1005X40
1	R6	RC0402FR-071KL	C274895	RESC1005X40N

Sub-totals:

9 Integrated Circuits

Quantity	References	Value	LCSC Part #	Footprint
1	U1	AMS1117-3	c5181460	SOT229P700X180-4N
4	U2,U3,U4,U5	AL8861Y13	C507867	CONV_AL8861Y13
1	U6	ESP32WROOM32E_16MB	C82899	XCVR_ESP32WROOM32E_16MB
1	U7	MP2359DJ-LF-Z	C18198375	SOT95P280X100-6N
1	U8	DS18B20U		SOP65P490X110-8N
1	U9	EVQ-P7C01K	C2936858	EVQP7C01K

Sub-totals:

1 Transistors

Quantity	References	Value	LCSC Part #	Footprint
1	Q5	YJQ20N04A	C919577	YJQ20N04A

Sub-totals:

6 Diodes

Quantity	References	Value	LCSC Part #	Footprint
5	D4,D7,D8,D9,D10	SD103AWS	C513472	SOD-323
1	D5	SM0402UWC	C779449	SM0402UWC

Sub-totals:

16 Miscellaneous

Quantity	References	Value	LCSC Part #	Footprint
4	J1,J3,J4,J5	B2BPHKSLFSN		JST_B2BPHKSLFSN

1	J2	66226-036		CON4_1X4_U_FCI
3	J6,J11,J12	66226-034		CON2_1X2_U_FCI
1	J8	PJ002BHSMTTR	C521452	CUI_PJ002BHSMTTR
2	J9,J10	25630301RP2		CON3_1X3_U_2563
4	L1,L3,L4,L5	HF50ACC575032	C439269	INDC5750X180
1	L2	SPH252012H4R7MT	C98381	SPH252012H2R2MT

Sub-totals:

Totals:

venerdì 1 dicembre 2023 20:35:45