

Bill Of Materials for Esprit

Design Title Esprit
Author M. Fikes
Document Number
Revision 1.2
Design Created April 30, 2020
Design Last Modified May 30, 2020
Total Parts In Design 60

9 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	C1	10uF	C2012X7R1A106K125AC
5	C2,C5-C8	4.7uF	C2012X5R1A475K125AA
3	C3-C4,C9	0.1uF	C1608X8R1E104M080AA

Sub-totals:

18 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
10	R1-R7,R12-R14	1k	RC0805JR-071KL
1	R8	22.1K	RC0805FR-0722K1L
1	R9	47.5K	RC0805FR-0747K5L
2	R11,R18	2k	RC0805JR-072KL
1	R15	100k	RC0805JR-07100KL
2	R16-R17	270R	RC0805JR-07270RL
1	R19	10k	RC0805JR-0710KL

Sub-totals:

4 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	U1	ESP32-WROVER-B__16MB__	ESP32-WROVER-B__16MB__
1	U2	MCP73833T-AMI_UN	MCP73833T-AMI_UN
1	U3	CP2102N-A02-GQFN24R	CP2102N-A02-GQFN24R
1	U4	AP7361C-33E-13	AP7361C-33E-13

Sub-totals:

2 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	Q1	DMP1045U-7	DMP1045U-7
1	Q2	UMH3N	UMH3N

Sub-totals:

14 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
4	D1,D3,D9-D10	BLUE	LED-B-CLEAR-0805
2	D2,D5	YELLOW	LED-Y-DIFF-0805
4	D4,D6-D7,D13	GREEN	LED-G-DIFF-0805
1	D8	SP0503BAHTG	SP0503BAHTG
1	D11	10V 1A	MBRM110LT1G
1	D12	RED	LED-R-DIFF-0805
1	D14	BLUE	LED-B-DIFF-0805

Sub-totals:

13 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part</u>
1	J1	JST PH-2	S2B-PH-SM4-TB_LF__SN__
1	J2	1981568-1	1981568-1
1	J3	CONN-SIL8	CONN-SIL8
4	MP1-MP4	970060244	970060244
4	MP5-MP8	MPMS 002 0005 PH	MPMS 002 0005 PH

1	RT1	15k	NTCG203NH153JT1
1	SW1	PTS526_SM15_SMTR2_LFS	PTS526_SM15_SMTR2_LFS

Sub-totals:

Totals: