

Bill Of Materials for Greaseweazle F7 Lightning

Design Title	Greaseweazle F7 Lightning
Author	George Rudolf Mezzomo
Document Number	01
Revision	1.1
Design Created	terça-feira, 25 de agosto de 2020
Design Last Modified	terça-feira, 25 de agosto de 2020
Total Parts In Design	65

Notes

Depending on LED type, R4 and R5 can be replaced by 1K or 3K, thus shortening the BoM.

31 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>
4	C1,C7,C17,C28	1.0u	CAPC2012X100_MOD
5	C2-C5,C14	10u	CAPC2012X100_MOD
1	C6	10n	CAPC1608X87_MOD
18	C8,C10,C12,C15-C16,C18-C27,C29-C31	100n	CAPC1608X87_MOD
3	C9,C11,C13	2.2u	CAPC2012X100_MOD

Sub-totals:

15 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>
1	R1	49.9K	0603
1	R2	9.53K	0603
5	R3,R9-R11,R14	1.0K	0603
2	R4-R5	470	0603
3	R6,R13,R15	3.00K	0603
3	R7-R8,R12	CAY16-103J4LF	CAY16-103J4LF

Sub-totals:

6 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>
1	U1	STM32F730Z8T6	QFP50P2200X2200X160-144N
1	U2	AP3211KTR-G1	SOT95P280X145-6N
1	U3	USBLC6-2SC6	SOT95P280X145-6N
2	U4-U5	7407	SO14
1	U6	AP2112K-3	SOT95P282X130-5N

Sub-totals:

1 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>
1	D1	B240	DIODE GENERIC SMD MEDIUM

Sub-totals:

12 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>
1	12V	PRT-00119	PRT00119
2	ACT,PWR	DIODE-LED	0603
1	DEBUG	CONN-SIL7	CONN-SIL7
1	FLOPPY	10056845-134LF	CON34_2X17_R2_FCI
1	L1	TYS60204R7	INDM5650X530
1	POWER	CONN-H4	CONN-SIL4
1	PWR_SLCT	CONN-SIL3	CONN-SIL3
2	RESET,WRITE INHIBIT	CONN-SIL2	CONN-SIL2
1	USB	61729-0010BLF	617290010BLF
1	XO1	ECS-3225MV-160-BN-TR	ECS3225MV160BNTR

Sub-totals:

Totals:

terça-feira, 25 de agosto de 2020 05:30:33