

Bill Of Materials for FOLDY - 1.1

Design Title FOLDY - 1.1
Author
Document Number
Revision
Design Created Wednesday, June 7, 2023
Design Last Modified Wednesday, June 7, 2023
Total Parts In Design 91

0 Modules

Quantity	References	Value	PCB Package	Notes
--------------------------	----------------------------	-----------------------	---------------------------------	-----------------------

Sub-totals:

15 Capacitors

Quantity	References	Value	PCB Package	Notes
6	C1,C4-C5,C7,C10-C11	100pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
4	C2-C3,C6,C8	1200pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
1	C9	10nF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
3	C12-C14	22pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
1	C15	1nF	CAP10	C0G/NP0 MLCC/ Ceramic / Film

Sub-totals:

39 Resistors

Quantity	References	Value	PCB Package	Notes
7	R1,R18,R20,R28-R31	100K	RES40	1% Resistor (100PPM / 50PPM Recommended)
6	R2,R14,R21,R23-R25	20K	RES40	1% Resistor (100PPM / 50PPM Recommended)
9	R3,R13,R16,R34-R35,R38-R39, R41-R42	10K	RES40	1% Resistor (100PPM / 50PPM Recommended)
4	R4-R5,R10-R11	12K	RES40	1% Resistor (100PPM / 50PPM Recommended)
1	R6	120K	RES40	1% Resistor (100PPM / 50PPM Recommended)
2	R7,R32	100R	RES40	1% Resistor (100PPM / 50PPM Recommended)
1	R8	300K	RES40	1% Resistor (100PPM / 50PPM Recommended)
2	R9,R12	499K	RES40	1% Resistor (100PPM / 50PPM Recommended)
1	R15	7.5K	RES40	1% Resistor (100PPM / 50PPM Recommended)
1	R17	91K	RES40	1% Resistor (100PPM / 50PPM Recommended)
4	R19,R22,R26-R27	220R	RES40	1% Resistor (100PPM / 50PPM Recommended)
1	R40	340R	RES40	1% Resistor (100PPM / 50PPM Recommended)

Sub-totals:

8 Integrated Circuits

Quantity	References	Value	PCB Package	Notes
2	U1-U2	OPA2132U	SO8	Choose good op amps (OPA2132 / OPA2134 / OPA1656 / AD8034)
1	U3	J2164	SO16	Sound Semiconductor SSI2164 (SSI Only)
3	U4-U6	OPA2134UA	SO8	Choose good op amps (OPA2132 / OPA2134 / OPA1656 / AD8034)
1	U7	LM4040-5	TO92	5V LM4040 (A, B, or C Type)
1	U8	TLE2062	SO8	TLE2062 best here. Good voltage swing, good supply current.

Sub-totals:

4 Transistors

Quantity	References	Value	PCB Package	Notes
2	Q1,Q3	2N3906	TO92	Any typical TO-92 PNP (EBC Pinout on PCB)
2	Q2,Q4	2N3904	TO92	Any typical TO-92 NPN (EBC Pinout on PCB)

Sub-totals:

2 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Notes</u>
2	D1-D2	1N4733A	DO41	Zener 5.1V

Sub-totals:

23 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Notes</u>
14	BP1-BP14	100nF	0805	Decoupling / Bypass SMT 0805 Capacitors C0G/NP0
3	DRYINJECT,FOLDLEVEL, SHAPE	100K	CONN- SIL3	Panel Pots
2	FB1-FB2	0R	RES40	Ferrite Beads Recommended
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header
2	PF1-PF2	10uF	ELEC- RAD13	Power Filtering Electrolytic Capacitors
1	VCA-DRYLOOP	SW-SPDT	CONN- SIL3	SPDT Toggle Switch (NKK Recommended)

Sub-totals:

Totals:

Wednesday, June 7, 2023 2:34:58 PM