

# Bill Of Materials for FOLDY - 1.1

**Design Title** FOLDY - 1.1  
**Author**  
**Document Number**  
**Revision**  
**Design Created** Thursday, June 8, 2023  
**Design Last Modified** Thursday, June 8, 2023  
**Total Parts In Design** 104

## 0 Modules

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">PCB Package</a>	<a href="#">Notes</a>
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Sub-totals:

## 15 Capacitors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">PCB Package</a>	<a href="#">Notes</a>
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
4	C12-C15	22pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film

Sub-totals:

## 40 Resistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">PCB Package</a>	<a href="#">Notes</a>
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)
3	R7,R32-R33	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

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">PCB Package</a>	<a href="#">Notes</a>
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

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

Sub-totals:

#### 35 Miscellaneous

Quantity	References	Value	PCB Package	Notes
12	+5,+12,-5,-12,0V,DCV,FCV,FOLDEDOUT,FOLDIN,V1OUT,V2OUT,VCA1IN	CONN-SIL1	CONN-SIL1	SIL HEADER ON PCB - No Component Required
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-DRY	SW-SPDT	CONN-SIL3	SPDT Toggle Switch (NKK Recommended)

Sub-totals:

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Totals:

Thursday, June 8, 2023 1:05:38 PM