

Bill Of Materials for Transform - 2.1

Design Title Transform - 2.1
Author
Document Number
Revision <NO
Design Created Wednesday, June 28, 2023
Design Last Modified Wednesday, June 28, 2023
Total Parts In Design 111

0 Modules

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

Sub-totals:

15 Capacitors

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

6	C1,C4-C5,C7,C14-C15	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
2	C10-C11	22pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
2	C12-C13	33pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film

Sub-totals:

43 Resistors

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

11	R1,R3,R11-R12,R14-R15,R21-R24,R33	100K	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)
4	R2,R5,R9-R10	220R	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)
4	R4,R6-R8	20K	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)
15	R13,R17-R18,R27-R31,R34-R40	10K	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)
3	R16,R41-R42	470R	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)
3	R19-R20,R32	100R	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)
2	R25-R26	100k	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)
1	R13-OPT-MODE	680k	RES40	1% Resistor (Temp Coefficient NOTimportant for this design.)

Sub-totals:

8 Integrated Circuits

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

1	U1	J2164	SO16	SSI2164 (SSI version only. No SSM or V series.)
5	U2-U3,U6-U8	OPA2134UA	SO8	Use High Quality Dual Op Amps. OPA2134 / OPA2132 / AD8034 / LF412 / TLE2072
1	U4	LM4040-5	TO92	5V Precision Voltage Reference TO-92 package. (A, B precision preferred.)
1	U5	TLE2062	SO8	TLE2062 HIGHLY RECOMMENDED (for voltage swing at 12V supply, and output current spec)

Sub-totals:

0 Transistors

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

Sub-totals:

0 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Notes</u>
-----------------	-------------------	--------------	------------------------	--------------

Sub-totals:

45 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Notes</u>
16	+5,+12,-5,-12,0V,CV1-CV2,FD,FIA1-FIA2,MX1-MX2,MXOUT,PANIN,VO1-VO2	CONN-SIL1	CONN-SIL1	SIL Pad on PCB / No component required.
16	BP1-BP16	100nF	0805	SMT Decoupling / Bypass 0805 Capacitors C0G/NP0
1	FADE1	10K	CONN-SIL3	Panel Pots (Linear)
2	FB1-FB2	0R	RES40	Ferrite Beads
2	FIB1-FIB2	CONN-SIL1	CONN-SIL1	Ferrite Beads
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header
1	LED1	LED-BIRG	CONN-SIL2	SIL Pad on PCB / No component required.
2	OFFSET1-OFFSET2	100K	CONN-SIL3	Panel Pots (Linear)
2	PF1-PF2	10uF	ELEC-RAD13	Electrolytic Power Filtering Capacitors
1	SW1	SW-DPDT	CONN-SIL6	DPDT Toggle Switch (Recommend NKK or TE/Alco)
1	VCADETATCH1	SW-DPST	CONN-SIL4	DPST/DPDT Toggle Switch (Recommend NKK or TE/Alco)

Sub-totals:

Totals:

Wednesday, June 28, 2023 12:52:29 PM