

Bill Of Materials for DIVIDER

Design Title	DIVIDER
Author	Dustin "J3RK" Stroh
Document Number	
Revision	1.1
Design Created	Monday, September 9, 2024
Design Last Modified	Monday, September 9, 2024
Total Parts In Design	47

0 Modules

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

0 Capacitors

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

15 Resistors

Quantity	References	Value	PCB Package	Notes
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4	R1-R4	100R	RES40	1/4W 50-100PPM 1% Resistor
4	R5,R7,R9,R11	2.2K	RES40	1/4W 50-100PPM 1% Resistor
4	R6,R8,R10,R12	1K	RES40	1/4W 50-100PPM 1% Resistor
1	R13	10k	RES40	1/4W 50-100PPM 1% Resistor
1	R14	10K	RES40	1/4W 50-100PPM 1% Resistor
1	R15	100k	RES40	1/4W 50-100PPM 1% Resistor

Sub-totals:

6 Integrated Circuits

Quantity	References	Value	PCB Package	Notes
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2	U1,U4	4013	DIL14	DIP CMOS 4000
1	U2	4001	DIL14	DIP CMOS 4000
2	U3,U6	40106	DIL14	DIP CMOS 4000
1	U5	TL074	DIL14	Any comparable Quad Op Amp to TL074

Sub-totals:

1 Transistors

Quantity	References	Value	PCB Package	Notes
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1	Q1	2N3904	TO92	TO-92 NPN Transistor (2N3904 EBC Pinout on board)
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Sub-totals:

3 Diodes

Quantity	References	Value	PCB Package	Notes
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3	D2-D4	CONN-SIL1	CONN-SIL1	On PCB Solder Pads. (no component needed)
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Sub-totals:

22 Miscellaneous

Quantity	References	Value	PCB Package	Notes
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6	+12,-12,0V,0V-2,CK,IN	CONN-SIL1	CONN-SIL1	On PCB Solder Pads. (no component needed)
7	BP1-BP7	100nF	0805	0805 SMT C0G/NP0 MLCC Bypass/Decoupling Capacitors
2	FB1-FB2	0R	RES40	1/4W 50-100PPM 1% Resistor
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header
4	LED1-LED4	LED-YELLOW	CONN-SIL2	2-Lead Single Color LEDs
2	PF1-PF2	10uF	ELEC-RAD13	Electrolytic Power Filtering Capacitor (10uF - 100uF is fine)

Sub-totals:

Totals: