

MST (or Synthrotek) 3U Stereo Output Mixer

Updated: 5/27/2015

Resistors:

QTY	Value	Ref.	Mouser Part #	<input type="checkbox"/>
2	1kΩ	R3, R19	291-1K-RC	<input type="checkbox"/>
14	100kΩ	R1, R2, R5, R6, R7, R8, R10, R12, R14, R15, R16, R17, R18, R20	291-100K-RC	<input type="checkbox"/>
2	200kΩ	R9, R11	291-200K-RC	<input type="checkbox"/>
2	300kΩ	R4, R13	291-300K-RC	<input type="checkbox"/>

TOTAL: 20

Diodes:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
4	1N4148	D1, D2, D3, D4	512-1N4148	<input type="checkbox"/>

TOTAL: 4

Capacitors:

QTY	Value	Ref.	Mouser Part #	<input type="checkbox"/>
2	100nF Ceramic	C1, C2	140-50V5-104Z-RC	<input type="checkbox"/>
2	10μF Eletrolytic	C3, C4	871-B41827A9106M000	<input type="checkbox"/>

TOTAL: 4

Integrated Circuits:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
1	TL074 OpAmp	U1	595-TL074CN	<input type="checkbox"/>
1	14-Pin Socket	U1	649-DILB14P-223TLF	<input type="checkbox"/>

TOTAL: 2

Potentiometers:

QTY	Value	Ref.	Mouser Part #	<input type="checkbox"/>
6	100kB Vertical Mount Potentiometer	R21, R22, R23, R24, R25, R26	Various Suppliers	<input type="checkbox"/>
6	Potentiometer Nut	R21, R22, R23, R24, R25, R26	Various Suppliers	<input type="checkbox"/>

TOTAL: 12

Jacks/Connectors:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
1	1/4" Vertical Stereo Jack	J3	523-ACJS-MN-5 **	<input type="checkbox"/>
1	1/4" Nut	J3	Various Suppliers	<input type="checkbox"/>
4	3.5mm Vertical Mount Mono Jack	J4, J5, J6, J7	PJ301BM (from Synthrotek, Erthenvar, Thonk, etc.)	<input type="checkbox"/>
1	3.5mm Stereo Jack	J8	161-3402-E	<input type="checkbox"/>
5	3.5mm Nut	J4, J5, J6, J7, J8	Various Suppliers	<input type="checkbox"/>
2	2-Pin Jumper	J1, J2	571-8815451	<input type="checkbox"/>
2	3-Pin Male Header	J1, J2	571-826936-2	<input type="checkbox"/>
1	10-Pin Keyed Shrouded Header	P1	649-69155-150	<input type="checkbox"/>

TOTAL: 17

**See assembly Instructions

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Other:

QTY	Part	Ref.	Mouser Part #	
2	2.5mm Screws		Various Suppliers	<input type="checkbox"/>
2	3.5mm Screws		Various Suppliers	<input type="checkbox"/>
6	Knobs		Various Suppliers	<input type="checkbox"/>
1	10 to 16-Pin Power Cable		Synthrotek	<input type="checkbox"/>
1	Foot of wire		Various Suppliers	<input type="checkbox"/>
1	Panel		Synthrotek	<input type="checkbox"/>
1	PCB		Synthrotek	<input type="checkbox"/>

TOTAL: 14