
































MST VCO Visual Bill of Materials / Parts List


Resistors


- 15Ω - R6 
- 200Ω - R64 
- 330Ω - R53,R60 
- 820Ω - R67 
- 1KΩ - R48,R49,R51,R54,R56,R62 
- 1KΩ Tempco 3300ppm*** - TC1 
- 1.58KΩ 1% - R47 
- 2KΩ 1% - R31,R34,R44 
- 2.2KΩ - R63,R65 
- 2.37KΩ 1% - R16 
- 3.4KΩ 1% - R37 
- 4.7KΩ - R12 
- 4.99KΩ 1% - R2,R4,R26,R28,R41 
- 5.6KΩ - R61 
- 7.5KΩ - R27 
- 10KΩ - R21,R23,R24,R25,R30,R57,R59 
- 10KΩ 1% - R33,R36,R39 
- 15KΩ - R11 
- 19.6KΩ 1% - R1 
- 20KΩ - R22,R58 
- 22KΩ - R17 
- 27KΩ - R15 
- 30KΩ - R19 
- 33KΩ 1% - R2(control board) 
- 33.6KΩ 1% - R35 
- 47KΩ - R8 
- 49.9KΩ 1% - R29 
- 56KΩ 1% - R1(control board),R20 
- 91KΩ 1% - R66 


- 100KΩ - R7,R13,R14,R18
R32,R42,R45,R55 


- 100KΩ 1% - R3,R5 


- 220KΩ - R38,R50,R52 

- 470KΩ - R10 

- 680KΩ - R46 

- 1MΩ - R40 


- 2MΩ - R43 

- 4.7MΩ - R9 

Total: 70


Diodes


- 1N4148 - D1,D2,D3,D4,D5,D6 


- 4.3V Zener - DZ1,DZ2 

Total: 8

Capacitors


- 3.3pf - C7 

- 10pf - C4 

- 100pf - C1,C3 

- 470pf - C6 


- 100nF - C5,C8,C9 


- 10uF Electrolytic - C10,C11 

- .005uF Polystyrene - C2 

Total: 11

Transistors


- 2N3904 - Q5,Q6,Q7 


- 2N3906 - Q3,Q4 


- BF256B - Q1,Q2 


Total: 7


IC/sockets

- THAT340 (no socket) - U4 

- TL074 - U3,U7 

- 14-PIN SOCKET - U3,U7 


- LT1013 - U1,U2 

- TL071 - U5,U6 

- 8 PIN SOCKET - U1,U2,U5,U6 

Total: 13

Potentiometers

- 500Ω Single-Turn Trimpot - TR204,TR205 

- 10KΩ Single-Turn Trimpot - TR202,TR203 

- 50KΩ Single-Turn Trimpot - TR200,TR201 

- 100KΩ Multi-turn Trimpot - TR1 

POTS CONTINUED ON NEXT PAGE



***Please note: The Tempco resistor must be populated after certain other components. Please see the Assembly Instructions page for more details at synthrotek.com/kits.

MST VCO Visual Bill of Materials / Parts List

Potentiometers

100kΩ Vertical Mount Potentiometer-VR1,VR2,VR3,VR4,VR5



Total: 12

Jacks/Connectors

16-Pin Keyed Shrouded Header-J200



2-Pin Header-TP1



2-Pin Jumper-TP1



5-Pin Male Header-J1,J2,J3,J4,J5



5-Pin Female Header-J6,J7,J8,J9,J10



3.5mm Vertical Mount Mono Jack J11,J12,J13,J14,J15
J16,J17,J18,J19



Total: 31

Other

7/16" Standoff-MH1,MH2,MH3,MH4



Screws For Standoffs-MH1,MH2,MH3,MH4



SPDT On/Off/On - SW1



Black Knob-VR1,VR2,VR3,VR4,VR5



16-Pin Eurorack Power Cable



2.5mm Screw



3mm Screw



PCB/Panel Combo



Thermal Tape

See assembly instructions



SYNTHROTEK MST VOLTAGE CONTROLLED OSCILLATOR QUICK START GUIDE

**FACTORY ASSEMBLED MODULES COME PRE-CALIBRATED AND READY FOR 1V/O USE.
WHEN PURCHASING A KIT PLEASE CONSULT THE MST VCO CALIBRATION GUIDE.**

