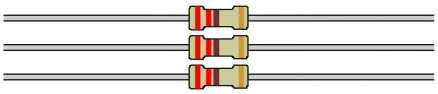
Synthrotek DS-8 Visual Bill of Materials / Parts List

RESISTORS

22ohm - R10

220ohm - R11, R28, R29

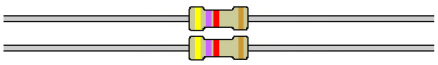


330ohm - R39

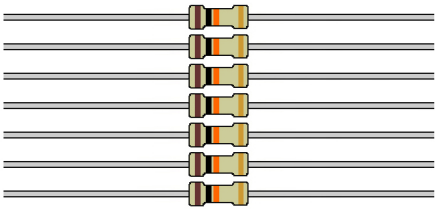
1k ohm - R0, R31

3.3k ohm - R8

4.7k ohm - R14, R34



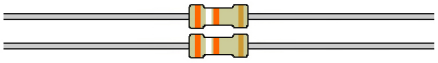
10k ohm - R1, R7, R20, R25, R26, R32, R41



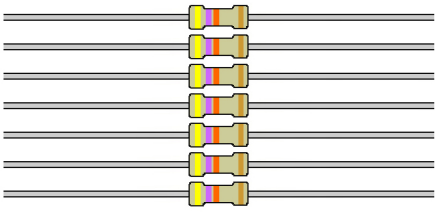
15k ohm - R33, R37

22k ohm - R3

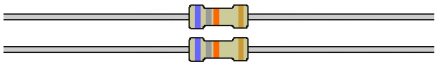
39k ohm - R4, R12



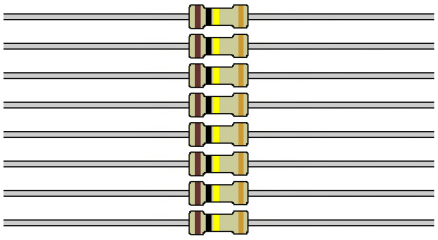
47k ohm - R17, R19, R21, R22, R23, R24, R27



68k ohm - R9, R40

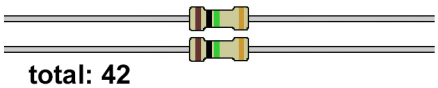


100k ohm - R5, R6, R13, R15, R16, R18, R30, R36



470k ohm - R35

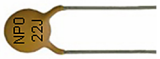
1M ohm - R2, R38



total: 42

CAPACITORS

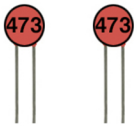
22pF Ceramic - C5



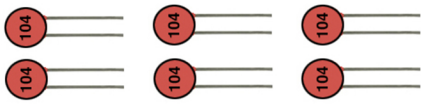
1nF Ceramic - C4, C13

10nF Ceramic - C12

47nF Ceramic - C3, C9



100nF Ceramic - C10, C14, C15
C16, C17, C18

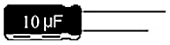


4.7uF Ceramic - C11

1uF Electrolytic - C6, C7, C8

3.3uF Electrolytic - C1, C2

10uF Electrolytic - C20



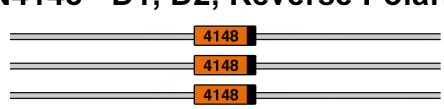
100uF Electrolytic - C19

total - 20

DIODES

5mm Red LED - D3

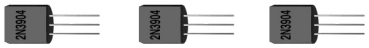
1N4148 - D1, D2, Reverse Polarity



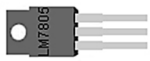
total - 4

TRANSISTORS / VOLTAGE REGULATOR

2N3904 NPN Transistor - Q1, Q2, Q3



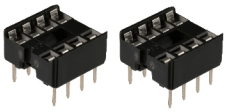
LM7805 Voltage Regulator - U5



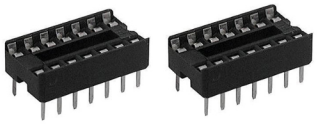
total: 4

INTEGRATED CIRCUITS

8-Pin Socket - U1, U4



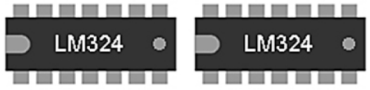
14-Pin Socket - U2, U3



CA3080 - U1

UA741 OpAmp - U4

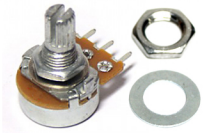
LM324 OpAmp - U2, U3



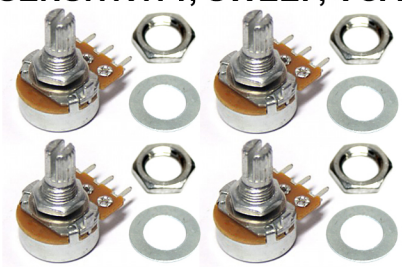
total: 8

POTENTIOMETERS

50k Linear - PAN

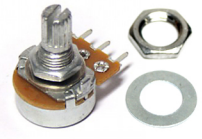


100k Linear - MODE,
SENSITIVITY, SWEEP, VCA



1M Linear - DECAY, RATE

100K Audio - LEVEL



total - 8

Synthrotek DS-8 Visual Bill of Materials / Parts List

SWITCHES

SPST Pushbutton (momentary ON) - Manual Trigger

SPDT (ON/ON) - Noise Tone

SPST - On/Off

total: 3

JACKS / CONNECTORS

1/4” Mono Jack - CV IN, OUT, TRIGGER

Piezo Contact Mic

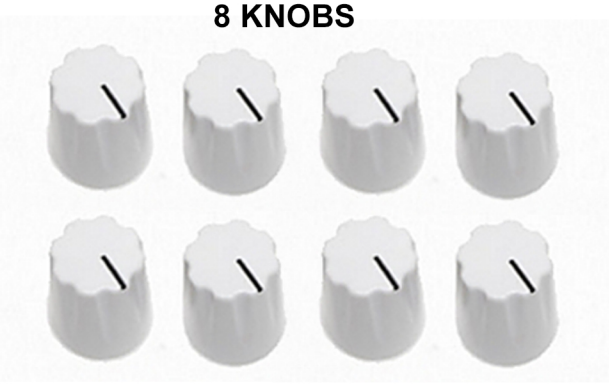
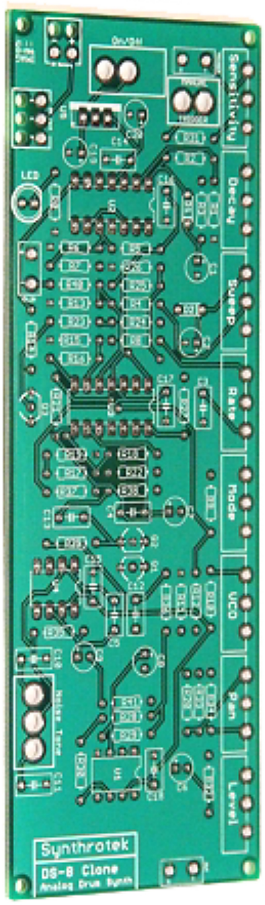
9V Battery Clip - 9V

DC Jack

total: 5

5 Feet Wire

8 KNOBS



PCB