

L-1 SYNTH

TUBE VCA – Parts list.

Items marked green are already installed or are included

| Qty | Value | Package | Comments | Parts | Farnell code |
|-----------------------|---|--------------------|---|-----------------------------|---|
| IC's | | | | | |
| 1 | LM358 | DIL08 | | IC2 | 1564329 |
| 1 | OPA2604 | DIL08 | TL072 for low buget | IC1 | 1097431 1106015 |
| Diodes | | | | | |
| 2 | 1N4004 | Through-hole | or 1N4007 | D11, D12 | 1843708 |
| Capacitors | | | | | |
| 4 | 22p | 1206 | Ceramic | C1, C5, C6, C8 | 1800833 |
| 4 | 0.1uF | 1206 | Ceramic, power decoupling caps | C11, C12, C13, C14 | 1759361 |
| 1 | 0.1uF | 5mm | film | C7 | 1166036 |
| 2 | 0.47uF | 5mm | film | C2, C4 | 1166041 |
| 2 | 10uF | 2.5mm | electrolyth | C9, C10 | 9451382 |
| 1 | 47uF | 2.5mm | electrolyth | C3 | 9451404 |
| Resistors | | | | | |
| 2 | 10 Ohm or ferrite bead | 0.25W through-hole | | R20, R23 | 9339035 |
| 1 | 330 | 1206 | | R10 | 2078998 |
| 1 | 750 0.5W (1K 0.5W for 15V 1576629) | 1206 | Or use two 1K5 0.25W in parallel (one on one) | R5 | 2079002 |
| 2 | 1K | 1206 | | R8, R21 | 2079001 |
| 2 | 2K2 | 1206 | | R4, R9 | 2079003 |
| 1 | 10K | 1206 | | R16 | 2079007 |
| 3 | 20K | 1206 | | R1, R2, R3 | 1469993 |
| 1 | 33K | 1206 | | R7 | 2079012 |
| 6 | 100K | 1206 | | R6, R12, R13, R14, R17, R19 | 2079015 |
| 2 | 220K | 1206 | | R15, R18 | 2079017 |
| Trimpots | | | | | |
| 2 | 100K | | CV, CLEAN | T1, T3 | 9353194 |
| 1 | 1M | | DIST | T2 | 9353208 |
| Potentiometers | | | | | |
| 1 | 50K_lin | 9mm PC mount | | CV1_LEVEL | Smallbear 1012A Tayda A-1858 |
| 3 | 50K_log | 9mm | | IN1_LEVEL IN2_LEVEL GAIN | Smallbear 1012A Tayda A-1660 |
| Switches | | | | | |
| 1 | FEEDBACK | SPDT on-on | Sub-miniature | S1 | 9473041 |
| 1 | CLEAN/DIST | SPDT on-on | Sub-miniature | S2 | Smallbear 0222 |
| Other | | | | | |
| 1 | Euro power connector | | | SV1 | 1928436 |
| 4 | Jack 3,5mm | PC-mount | Erthenvar or Kobiconn | IN1, IN2, CV1, OUT | Farnell 1280747 Mouser Kobiconn 16PJ138 Thonk Thonkiconn Erthenvar Erthenvar |

| | | | | | |
|---|-------------|--|------------------|--|--|
| 4 | Spacer 12mm | | | | 1466845 |
| 4 | Knobs | | Synth pointer #2 | | Thonk KNOB_SynthTech Smallbear 0808D |

Hex nuts and washers from Erthenvar:

<http://erthenvar.com/store/eurodiy/35hardware/hex35mm>

<http://erthenvar.com/store/eurodiy/35hardware/washer35mm>

Hex nuts and washers from Thonk:

<http://www.thonk.co.uk/shop/jack-nuts-and-washers/>