

## L-1 SYNTH

### STEREO MIXER PCB 1 – Parts list.

Items marked green are already installed or are included

| Qty                   | Value        | Package            | Comments                       | Parts                                                                       | Farnell code                                                                                                                         |
|-----------------------|--------------|--------------------|--------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>IC's</b>           |              |                    |                                |                                                                             |                                                                                                                                      |
| 1                     | TL072        | DIL08              |                                | IC12                                                                        | <a href="#">1106015</a>                                                                                                              |
| 1                     | OPA2604      | DIL08              |                                | IC21                                                                        | <a href="#">1097431</a>                                                                                                              |
| 2                     | LM3915       | DIL18              |                                | U\$13, U\$14                                                                | <a href="#">1468965</a>                                                                                                              |
| <b>Diodes</b>         |              |                    |                                |                                                                             |                                                                                                                                      |
| 2                     | 1N4004       | Through-hole       | or 1N4007                      | D25, D26                                                                    | <a href="#">1843708</a>                                                                                                              |
| 4                     | 1N4148       | Through-hole       |                                | D21, D22, D23, D24                                                          | <a href="#">9843680</a>                                                                                                              |
| 16                    | LED          | 3mm                | green                          | D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20   | <a href="#">1208845</a>                                                                                                              |
| 4                     | LED          | 3mm                | red                            | D1, D2, D3, D4                                                              | <a href="#">1208885</a>                                                                                                              |
| <b>Capacitors</b>     |              |                    |                                |                                                                             |                                                                                                                                      |
| 2                     | 100n         | 5mm                | film                           | C67, C68                                                                    | <a href="#">1650969</a>                                                                                                              |
| 4                     | 0.1uF        | 1206               | Ceramic, power decoupling caps | C63, C64, C65, C66                                                          | <a href="#">1759361</a>                                                                                                              |
| 2                     | 1uF          | 1.5mm              | electrolyth                    | C1, C2                                                                      | <a href="#">1871015</a>                                                                                                              |
| 2                     | 470uF        | 5mm                | electrolyth                    | C3, C4                                                                      | <a href="#">1800650</a>                                                                                                              |
| <b>Resistors</b>      |              |                    |                                |                                                                             |                                                                                                                                      |
| 2                     | ferrite bead | through-hole       |                                | R1, R2                                                                      | <a href="#">1781253</a>                                                                                                              |
| 4                     | 330          | 1206               |                                | R13, R14, R33, R34                                                          | <a href="#">2078998</a>                                                                                                              |
| 4                     | 1K           | 1206               |                                | R7, R8, R31, R36                                                            | <a href="#">2079001</a>                                                                                                              |
| 2                     | 2K           |                    |                                | R32, R35                                                                    | <a href="#">1469985</a>                                                                                                              |
| 2                     | 4K99         | 1206               |                                | R9, R10                                                                     | <a href="#">1470015</a>                                                                                                              |
| 2                     | 10K          | 1206               |                                | R11, R12                                                                    | <a href="#">2079007</a>                                                                                                              |
| 15                    | 100K         | 1206               |                                | R3, R15, R16, R20, R21, R23, R24, R27, R29, R30, R37, R38, R41, R43, R44    | <a href="#">2079015</a>                                                                                                              |
| 13                    | 240K         | 1206               |                                | R20, R107, R115, R125, R207, R215, R225, R307, R315, R325, R407, R415, R425 | <a href="#">1100254</a>                                                                                                              |
| 2                     | 100K         | 0.25W through-hole |                                | R5, R6                                                                      | <a href="#">9341129</a>                                                                                                              |
| <b>Trim pots</b>      |              |                    |                                |                                                                             |                                                                                                                                      |
| 5                     | 50K          |                    | LEV1, LEV2, LEV3, LEV4, LEVOUT | T1, T2, T3, T4, T5                                                          | <a href="#">9353305</a>                                                                                                              |
| <b>Potentiometers</b> |              |                    |                                |                                                                             |                                                                                                                                      |
| 9                     | 50K_lin      | 9mm PC mount       |                                | LEV1, LEV2, LEV3, LEV4, PAN1, PAN2, PAN3, PAN4, OUT                         | Thonk <a href="#">VERTICAL: B50K</a><br>Smallbear <a href="#">1012A</a><br>Tayda <a href="#">A-1858</a><br><a href="#">Erthenvar</a> |
| <b>Other</b>          |              |                    |                                |                                                                             |                                                                                                                                      |
| 1                     | Euro power   |                    |                                | SV7                                                                         | <a href="#">1929106</a>                                                                                                              |

|    |                   |                  |                       |          |                                                                                                                    |
|----|-------------------|------------------|-----------------------|----------|--------------------------------------------------------------------------------------------------------------------|
|    | connector angled  |                  |                       |          |                                                                                                                    |
| 2  | Receptacle 16-way | 2.54mm, vertical | Samtec BCS-108-L-D-TE | SV3, SV5 | Farnell <a href="#">2308428</a><br>Samtec <a href="#">BCS-108-L-D-TE</a>                                           |
| 15 | Jack 3,5mm        | PC-mount         | Erthenvar or Kobiconn |          | Mouser Kobiconn <a href="#">16PJ138</a><br>Thonk <a href="#">Thonkiconn</a><br>Erthenvar <a href="#">Erthenvar</a> |
| 1  | Jack 3,5mm stereo |                  | Lumberg               |          | <a href="#">1200144</a>                                                                                            |
| 4  | Spacer 10mm       | Male-Female      |                       |          | <a href="#">1466826</a>                                                                                            |
| 4  | Spacer 5mm        | Male-Female      |                       |          | <a href="#">1466735</a>                                                                                            |
| 8  | Knobs 16mm        |                  | Synth pointer #2      |          | Thonk <a href="#">KNOB</a> <a href="#">SynthTech</a><br>Smallbear <a href="#">0808D</a>                            |
| 1  | Knob 27mm         |                  | Boss style            |          | Tayda <a href="#">A-1006</a>                                                                                       |

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/>