

Dual VCA BOM

| Qty | Value                          | Device                      | Package                        | Parts                             | Description                            |
|-----|--------------------------------|-----------------------------|--------------------------------|-----------------------------------|----------------------------------------|
| 6   | 0.1uf                          | CAPACITOR                   | CAP/.15X.08                    |                                   | (mouser#:594-K104K15X7RF53L2)          |
| 4   | 10pf                           | CAPACITOR                   | CAP/.15X.08                    | C2, C6, C7, C8                    | (mouser#:594-K100J15C0GF5TL2)          |
| 2   | 330pf                          | CAPACITOR                   | CAP/.15X.08                    | C1, C5                            | (mouser#:594-K331J15C0GF53L2)          |
| 2   | 10uf                           | CAPACITOR                   | 4x7mm                          |                                   | (mouser#:647-USR1E100MDD)              |
| 13  | 100k                           | RESISTORRES-HOR-0.4         | RES-HOR-0.4                    | R1, R2, R17, R21, R27, R35, R37,  | (1/4watt 5%)                           |
| 7   | 1k                             | RESISTORRES-HOR-0.4         | RES-HOR-0.4                    | R25, R34, R36, R40, R42, R45, R51 |                                        |
| 2   | 47k                            | RESISTORRES-HOR-0.4         | RES-HOR-0.4                    | R23, R24, R39, R44                |                                        |
| 2   | 270k                           | RESISTORRES-HOR-0.4         | RES-HOR-0.4                    | R3, R4                            |                                        |
| 2   | 75k                            | (all from mouser, or tayda) |                                |                                   |                                        |
| 1   | 1k-20k(L1)                     | RESISTORRES-HOR-0.4         | RES-HOR-0.4                    | R22                               | (value dependent on color/mcd)         |
| 1   | 1k-20k(L2)                     | RESISTORRES-HOR-0.4         | RES-HOR-0.4                    | R18                               |                                        |
| 2   | 1N4001                         | 1N4004(or 1n4001)           | DO41-10                        | D1, D2                            | DIODE(tayda)                           |
| 2   | 2N3904                         | 2N3904                      | TO92                           | T1, T2                            | NPN TRANSISTOR (tayda)                 |
| 2   | 2N3906                         | 2N3906                      | TO92D                          | Q1, Q3                            | PNP TRANSISTOR (tayda)                 |
| 1   | OTA_LM13700N                   | OTA_LM13700N                | OTA_DIL16                      | IC2                               | Dual OTA with buffers                  |
| 1   | TL072_                         | TL072_                      | DIL08                          | U1                                | Generic Dual Op Amp                    |
| 1   | TL074                          | OPAMP/QUAD                  | 14-PDIP                        | U2                                |                                        |
| 2   | leds                           | (any color)                 | 3MM                            |                                   | (tayda)                                |
| 2   | 100k                           | TRIM pot                    | 6MM                            | TM1, TM2                          | (tayda)                                |
| 7   | qingpu 4.5mm                   | thread jacks                |                                |                                   | (from me, erthenvar, or thonk etc)     |
| 1   | JMP/10P/DIPHEADER              | dual row                    | 10 pin right angle male header |                                   | (power Header)(all headers from tayda) |
| 1   | 7 pin right angle male headers |                             |                                | 2,0/0,9-R                         | PAD1, PAD2                             |
| 2   | 2 pin right angle male headers |                             | JMP/2P/SIP                     |                                   |                                        |