

RES 18 - WAVE MULTIPLIER - Parts List - Feb 2010

| Q | Part | Substitute | Note |
|-------------------|----------------------|--------------------|----------------------------|
| Resistors | | | |
| 2 | R330 | | |
| 4 | 1k5 | | |
| 2 | 3k3 | | |
| 2 | 10k | | |
| 1 | 15k | | |
| 1 | 22k | | |
| 8 | 33k | | |
| 1 | 47k | | |
| 1 | 82k | | |
| 18 | 100k | | |
| 1 | 150k | | |
| 1 | 200k | | |
| 1 | 220k | | |
| 4 | 330k | | See Notes |
| 1 | 470k | | |
| 0 | 680k | | See Notes |
| 3 | 820k | | |
| 5 | 1M0 | | |
| 1 | 1M5 | | |
| 4 | 2M2 | | |
| 1 | 3M3 | | |
| 1 | 6M8 | | |
| 6 | 10M | | |
| 2 | 100k | (for CV rejection) | Trimmers |
| Capacitors | | | |
| 2 | 30pF | or rather: 33pF | cer. |
| 1 | 47pF (*) | | cer. |
| 1 | 150pF | | cer. |
| 3 | 10n (**) | | MKT or MKS |
| 7 | 47n | | MKT or MKS |
| 5 | 100n | | MKT or MKS |
| 2 | 220n | | MKT or MKS |
| 3 | 1uF | | electrolyte (radial) |
| 1 | 47uF | | electrolyte (radial) |
| Semi's | | | |
| 2 | LM3900 | MC3401 | 14-p DIL |
| 4 | 4558 | TL072 (better) | 8-p DIL |
| 2 | LM3080 | | 8-p DIL |
| 2 | 2N4250 | BC560C, 2N5087 | pnp |
| 1 | 1N?? | BZX79C4V7 | zener, 4V7, 400mW, 5% tol. |
| 22 | 1N914 | 1N4148 or similar | |
| Misc. | | | |
| 12 | sockets | | |
| 1 | DPDT toggle switch | | |
| 3 | pots 50k Lin + knobs | | |
| 1 | RES18 v1.1 PCB | | |

Notes

4 bridges !

The 680k resistor needs to be replaced with a 6M8.

One of the 330K's needs to be replaced with a 3M3. See "Res18 V1.1 Mods".

(*) There are two more 47pF caps on the board (top). These should not be installed !
See "RES18 V1.1 Mods". Also for (**)

Additional 330k & R220 resistors needed for wiring the panel.