Looping VCADSR V4 outer 110mm x 30mm schematic

**IC103** — PIC16F1764
- Pin 1 VDD
- Pin 2 OSC1/RA5
- Pin 3 OSC2/RA4
- Pin 4 MCLR/RA3
- Pin 14 VSS
- RC5 (5), RC4 (6), RC3/AN7 (7), RC2/AN6 (8), RC1/AN5 (9), RC0/AN4 (10)
- RA2/AN2 (11), RA1/AN1 (12), RA0/AN0 (13)

Op-amps: IC102B TL074P, IC101B TL072P, IC102C TL074P, IC102D TL074P, IC102A TL074P, IC101A TL072P

Labels: release, level, sustain, decay, attack, time

JP3: 1 ATTACK, 2 DECAY, 3 SUSTAIN, 4 RELEASE, 5 LEVEL

JP6: 1 -5V, 2 GND, 3 OUT, 4 GATE

JP4: 1 SA3 loop, 2 SA2 gate, 3 SA1 off, 4 LED, 5 +12V

Voltage regulators: VR101 79L05, VR102 78L05

Transistors: Q101 2N3904, Q102 2N3904

Resistors: R101 27k, R102 91k, R103 1k, R104 100k, R105 1k, R106 12k, R107 10k, R108, R109 220k, R110 4k7, R111 100k, R112, R113 8k2, R114 100k, R115 100k, R116 4k7, R117 4k7, R118 4k7, R119 4k7, R120 1k, R121 10k, R122 10k, R123 10k, R124 10k, R125 10k

Capacitors: C101 10u, C103 10u, C104 10u, C105 100n, C106 68n, C107 6n8, C108 100n, C110 100n, C111 100n, C112 100n, C113 100n, C114 10u, beads L101, L102

D101 diode

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