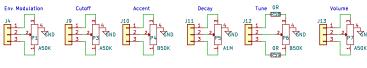
POWER XOX-HEART connectors L1 U4 MLZ2012M330WT000 MC7805ACD2TR4G GND (GND 22u GND ○ TRIM1 ○ TRIM2 D5 L2 742792664 ○ TRIM3 ○ TRIM4 +12V AUDIO_OUT_VCA 1 C19 GND 22u -12V 1N5819HW-F TIMER (generates a square signal, that will be used to convert analog notestiometers voltages to digital TII CV/GATE INPUTS 100n GND +12V> +50> 2 +5V 744HC1G00 3.7 7.0 8.2 8.3 ₹ D E GND U5 3 | 8 10K 10K 100n + +5V 4 OND TIMER GND <u>+5V</u> +5V 2 +5V 7+AHC1G08 £ 0 55 CUTOFF (CV IN) GND +5V +5V> CUTOFF_FM IN TO THE TOTAL RB T 2 | Z 36K 10K R12 R18 1N4148 D2 GND TIMER JACK7 GATE (GATE IN) GND U3C U3D M74HC14YTTR M74HC14YTTR GND U3A U3B M74HC14YTTR M74HC14YTTR +5V> >>0⁸ | ACCENT ×4 GATE_IN ΛCC C15 ACCENT 4 2 1 ACCENT 2 ACCENT 3 ACCENT 3 ACCENT 1 GND GND GND +50 PITCH (CV IN) GND D13 CV_IN C10 = JACK6 SLIDE (GATE IN) GND U3F U3E M74HC14YTTR M74HC14YTTR C10 + R61 100n + T5K GND GND GND SLIDE 12 SLIDE XOX S SLIDE XOX S SLIDE XOX S SLIDE XOX S SLIDE XOX SUDE XOX SW1 $_{\sf GND} \stackrel{\downarrow}{\smile}$ **WAVEFORM MIX** +12V> 100n +50 ACK12 SQUARE LEVEL (CV IN) +5V D17 SQUARE_LEVEL 4νο X | 18 **AUDIO OUTPUTS (+ FM CUTOFF)** \downarrow_{GND} - <u>KYZ</u>-PWM_SQUARE 10K ₹ <u>|</u> 88 AUDIO_OUT_VCF GND TIMER P9 PSAW_LEVEL B50K 18mA (max) -12V R3.3 100K +5V> ACK13 SAW LEVEL (CV IN) GND 12K R31 +5V> GND TIMER LED V C16 100p ž | § 1K 18mA (max) AUDIO_OUT_VCA R34 51K GND C17 100p JACK11 AUDIO (IN) FM CUTTOF (audio vca to audio cutoff) amplifier + full-wave rectifier LED D20 D20 S330R External audio input D14 (to filter) CERADIODE 100k C9 100p GND 1K R54 CUTOFF_FM

DIRECT CONTROLS TO XOX-HEART



303 INTERFACE REV3

Interface for the openmusiclabs x0x-heart motherboard based on the openmusiclabs x0x-heart pacemaker schematic