

KMIX Audio Board

Last Modified: 5/6/2016 12:23 PM

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2	Modules
INSTRUMENT_IN:1	TRS/XLR Combo jack, MIC Phantom Power Signals, Instrument Amplifier
LINE_CHANNEL:1	LINE IN channel preamplifier, gain select mux
MIC_CHANNEL:1	Microphone preamplifier, gain select mux
ZEROCROSS:1	Zero Crossing detector comparators
GAIN_SEL:1	C8051 MCU, Preamp Gain selection shift regs
SUPPLY:1	USB Bus Power IN, Current Limit, DC/DC Converters
DSP:1	Digital Signal Processing ICs, SHARC, XMOS, ADC, CODEC

Changelog:


7.0 5/6/2016 GW (Released)
Per pcb manufacturer request:
Increased MSOP10 package smd pad length

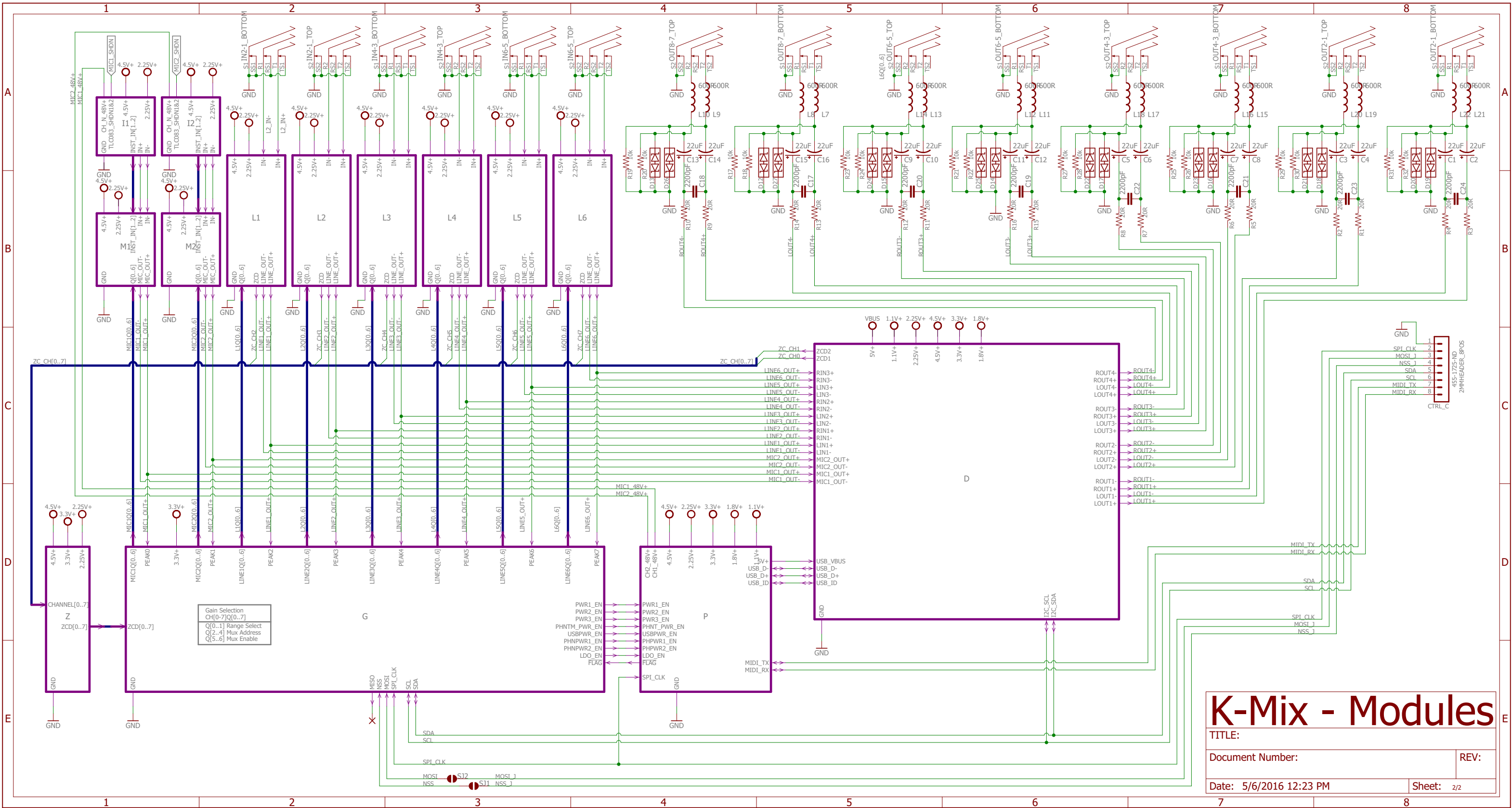
6.0: 4/21/16 GW (Rejected)
Added I:C7, I:C8 Noise reduction capacitors on +48V MIC IN
Moved D:C10 northeast 1.0mm for shield clearance
Moved D:C73, D:C72 North for shield clearance
Moved D:C74, D:C75 (MLCC) to reverse side to make room for D:C73, D:C72
Moved I:R4, I:R5, MC1, M:C4 to make room for I:C7, I:C8
Added additional Revision label

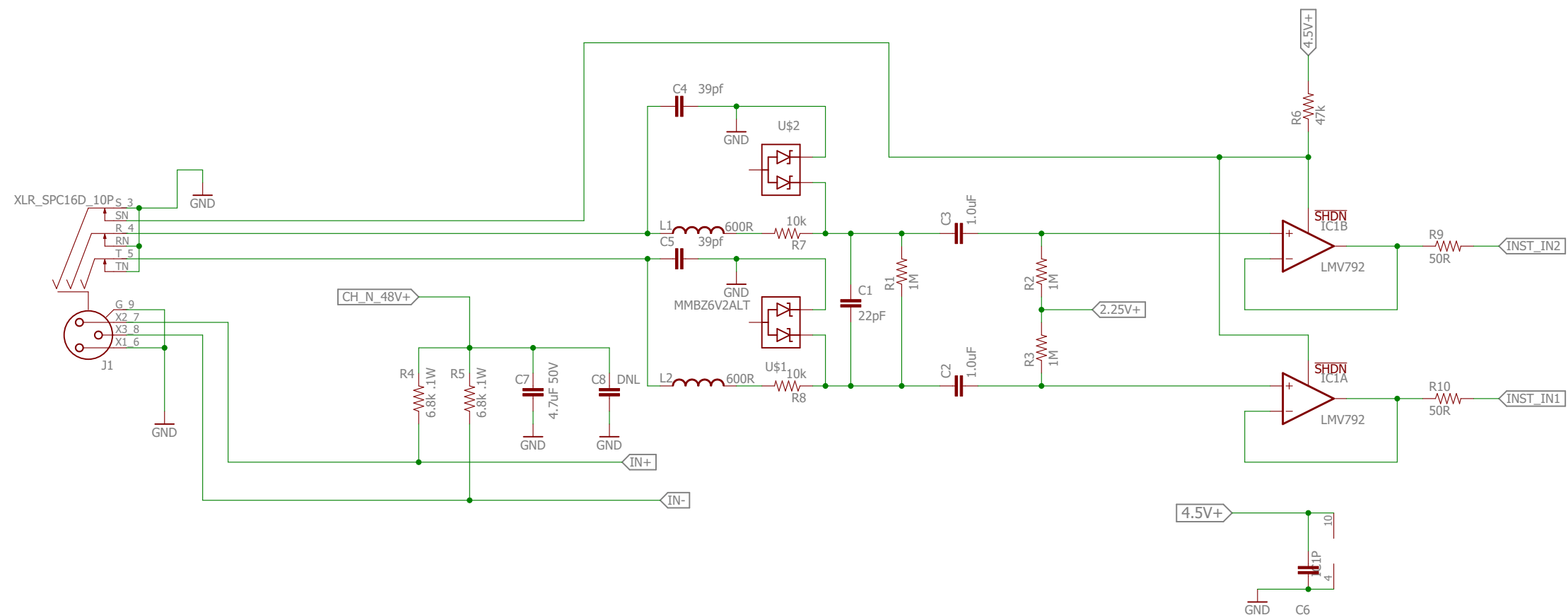
Per pcb manufacturer request:
Increased Thermal keep away spacing
Decreased Headphone Jack locating hole diameter. Center moved north
Increased edge clearance wrt eastern edge
Increased TSSOP14 package smd pad length
Chaned LED footprint to 0402 (4x)

Rev 5.0: 12/24/15 (Released)
Added precision Vref REF5020AID. Removed Railsplitter TLE2426.

Rev 4.1: 09/16/15 (Released)

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Instrument Input for Mic Channels

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