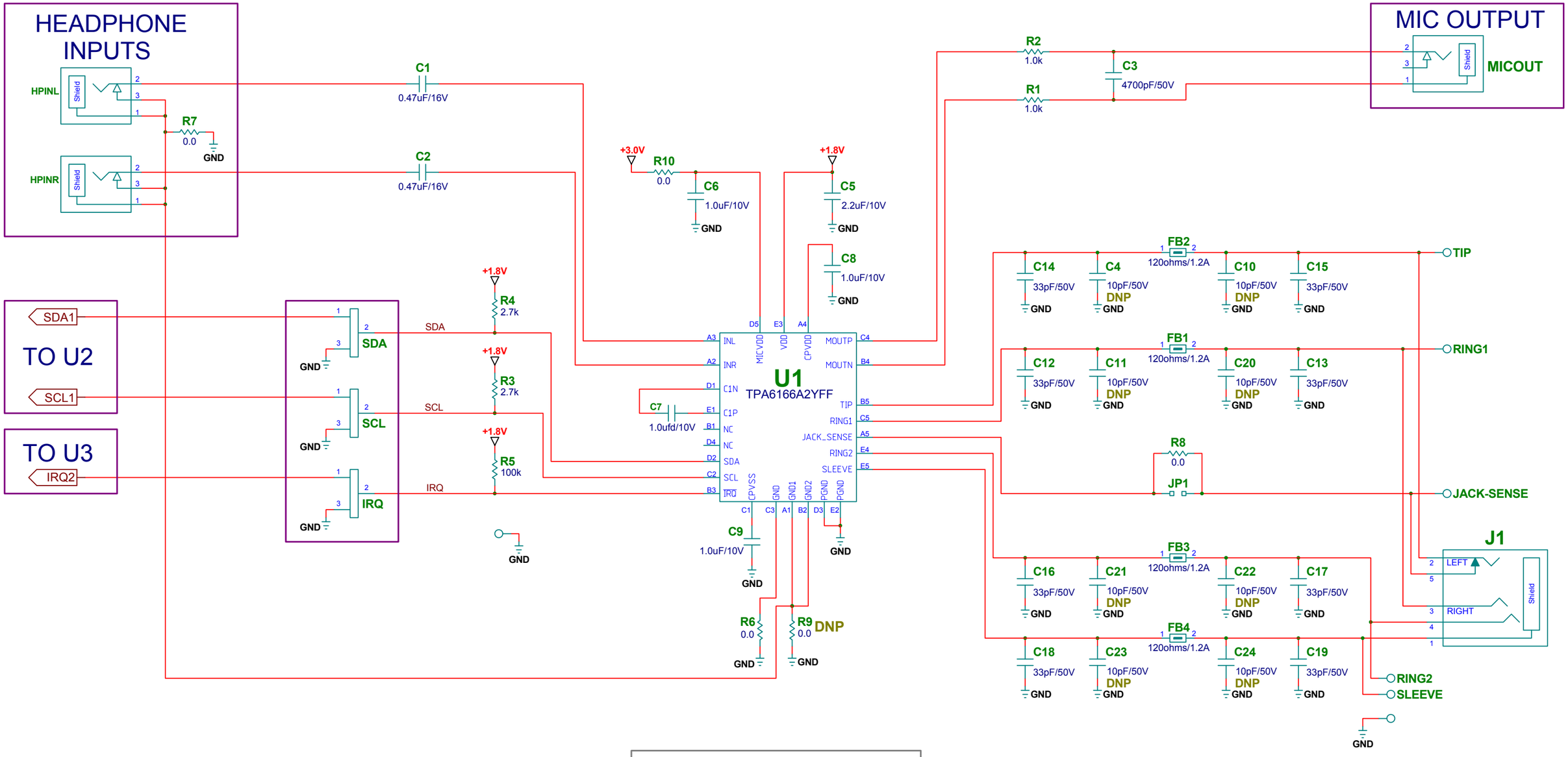
TPA6166A2YFF EVALUATION BOARD



MOUNTING HARDWARE

M3x12 M3x12 M3x12 M3x12 — STANDOFFS

M3x5 M3x5 M3x5 M3x5 — SCREWS

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TPA6166A2YFF EVALUATION BOARD

POWER SUPPLY INPUTS

3.0V — 3VIN — JP2 — +3.0V

GND — GND

1.8V — 1.8VIN — C29 10uF/6.3V — GND — JP3 — +1.8V

5.0V — 5VIN — JP4 — +5V / +5V-USB

VR1 — TPS73630MDBVREP — 3.0V/400mA
- +5V; C25 10.0uF/10V; C26 0.1uF/16V; GND
- IN, GND, EN, OUT, NR
- C27 10.0uF/10V; C28 1.0uF/25V; GND

VR2 — TPS73618MDBVREP — 1.8V/400mA
- +5V; C30 10.0uF/10V; C31 0.1uF/16V; GND
- +1.8V-PS; C32 10.0uF/10V; C33 1.0uF/25V; GND

VR3 — TPS73633MDBVREP — 3.3V/400mA
- +5V; C34 10.0uF/10V; C35 0.1uF/16V; GND
- +3.3V; C36 10.0uF/10V; C37 1.0uF/25V; GND

GND

U4 — 64K
- +3.3V; R15 4.99k; JP5; GND
- A0, A1, A2, Vss, Vcc, WP, SCL, SDA
- +3.3V; C38 0.1uF/16V; GND

USB
- +5V; R11 15k; Q1 40V,1A; R12 1.50k
- R13 27.4; R14 27.4
- C39 47pF/50V; C40 47pF/50V; GND
- +5V-USB; FB5 600 Ohms/2A; FB6 600 Ohms/2A
- 5v, Data, Data+, ID_NC, GND
- PUR, DP, DM

USB RESET
- +3.3V; R16 100k; S1; C49 0.1uF/16V; GND

JP6

U5 — TAS1020BPFB
- PLLFILO, AVDD, MCLKI, DVSS, PUR, DP, DM, DVDD, MRESET, TEST, EXTEN, RSTO
- PLLFILI, XTALI, XTALO, AVSS, SCL, SDA, VREN, RESET, MCLKO2, MCLKI, CDATO, CSCLK, CDATI, CSYNC, CRESET, DVDD, CSCHNE, P1.7, P1.6, P1.5, DVSS, P1.4, P1.3, P1.2
- P3.0, P3.1, P3.2/XINT, DVSS, P3.3, P3.4, P3.5, NC, DVDD, NC, P1.0, P1.1
- USB-IRQ

C50 0.1uF/16V; C51 0.1uF/16V; C52 0.1uF/16V; C53 0.1uF/16V; GND

+3.3V; R23 2.00k; C54 0.1uF/16V; GND

+3.3V; R19 220k; SDA2; SCL2

U2 — PCA9306DCT
- SDA2, SCL2, VREF2, EN, SDA1, SCL1, VREF1, GND
- C41 0.1uF/16V; GND
- +1.8V-PS; C42 0.1uF/16V; GND

R17 330; R18 330

+3.3V; R20 4.99k; R21 4.99k

C45 18pF/50V; Y1 6.0MHz; C46 18pF/50V; GND

C47 100pF/50V; R22 3.09k; C48 1000pF/50V; GND

+1.8V-PS; C44 0.1uF/16V; GND

U3 — SN74AVC1T45DBV
- +3.3V; C43 0.1uF/16V; GND
- VCCA, GND, A, VCCB, DIR, B
- GND

FROM U1: SDA1, SCL1, IRQ2

USB-IRQ

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		DRAWN BY	LDN

TPA6166A2YFF EVALUATION BOARD

REVISION HISTORY

REVISION	DESCRIPTION	DATE	APPROVAL
A	RELEASE	FEBRUARY 18, 2014	PC

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