TRIMMER20K

VCC

IC1

C1
0.1u

R1
20k

IN+

IN-

OUT+

LS+

BIAS

OUT-

LS-

AUDIOOUT

0.1u
C2

AUDIOEN

EN

VEE

NCS2211

GND

BAT
3
2
1

VBAT
GND
5V

NRF24
IRQ   8   7   MISO
MOSI   6   5   SCK
CSN   4   3   RFCE
3.3   2   1   GND

MIC_IN
5   GND
4   3.3
3
2   AUDIOIN
1   AR

SWS002
3   2
4   1
ON
1   2
S1

R5
10k

R6
10k

3.3

GND

LED1
RED   P$4   R2
GND   P$3   100
GREEN P$2   R3
BLUE P$1   R4
              100

RED
GND
BLUE
GREEN

BAT54C
5V   D1   VBAT

SW_IN1

SD1
SDCE   2   CS
MOSI   3   DI
3.3   4   VCC
SCK   5   CLK
GND   6   GND
MISO   7   DO

SW_IN2

IC2
AUDIOEN   0/RX1/T   VIN   VCC
PIN1   1/TX1/T   3.3V   3.3
PIN2   2   VBAT   VBATAUX
PIN3   3/CAN-TX/PWM   GND   GND
SDCE   4/CAN-RX-PWM
RFCE   5/PWM   PGM   PGM
CSN   6/PWM
PIN7   7/RX3
PIN8   8/TX3   AGND   AGND
PIN9   9/RX2/PWM
PIN10   10/TX2/PWM   A14/DAC   AUDIOOUT
MOSI   11/MOSI
MISO   12/MISO
SCK   13/SCK/LED
IROUT   14/A0
AUDIOIN   15/A1/T
BLUE   16/A2/T
GREEN   17/A3/T
PIN18   18/A4/T/SDA0
PIN19   19/A5/T/SCL0
RED   20/A6/PWM
PIN21   21/A7/PWM
PIN22   22/A8/T/PWM
PIN23   23/A9/T/PWM

TEENSY_3.1_OUTER_ROW

5V   USB5V

TSOP4830
V+   3.3
OUT   IROUT
GND   GND

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