

TEENSY CONVOLUTION MAIN IQ BOARD

Part ITEMS

ENC_2 ALPS_EC12E_SW

ENC_3 ALPS_EC12E_SW

ENC_TUNE ALPS_EC12E_SW

FB1 FB2 FB3 FERRITE BEAD 1206

FUSE 1206

PCA9674 SOIC16R

C1 C2 C3 C4 C5 C6 1206 10NF – NC

C7 C8 C9 C11 C2 C14 100NF 1206

C10 C13 C16 10Uf 1206

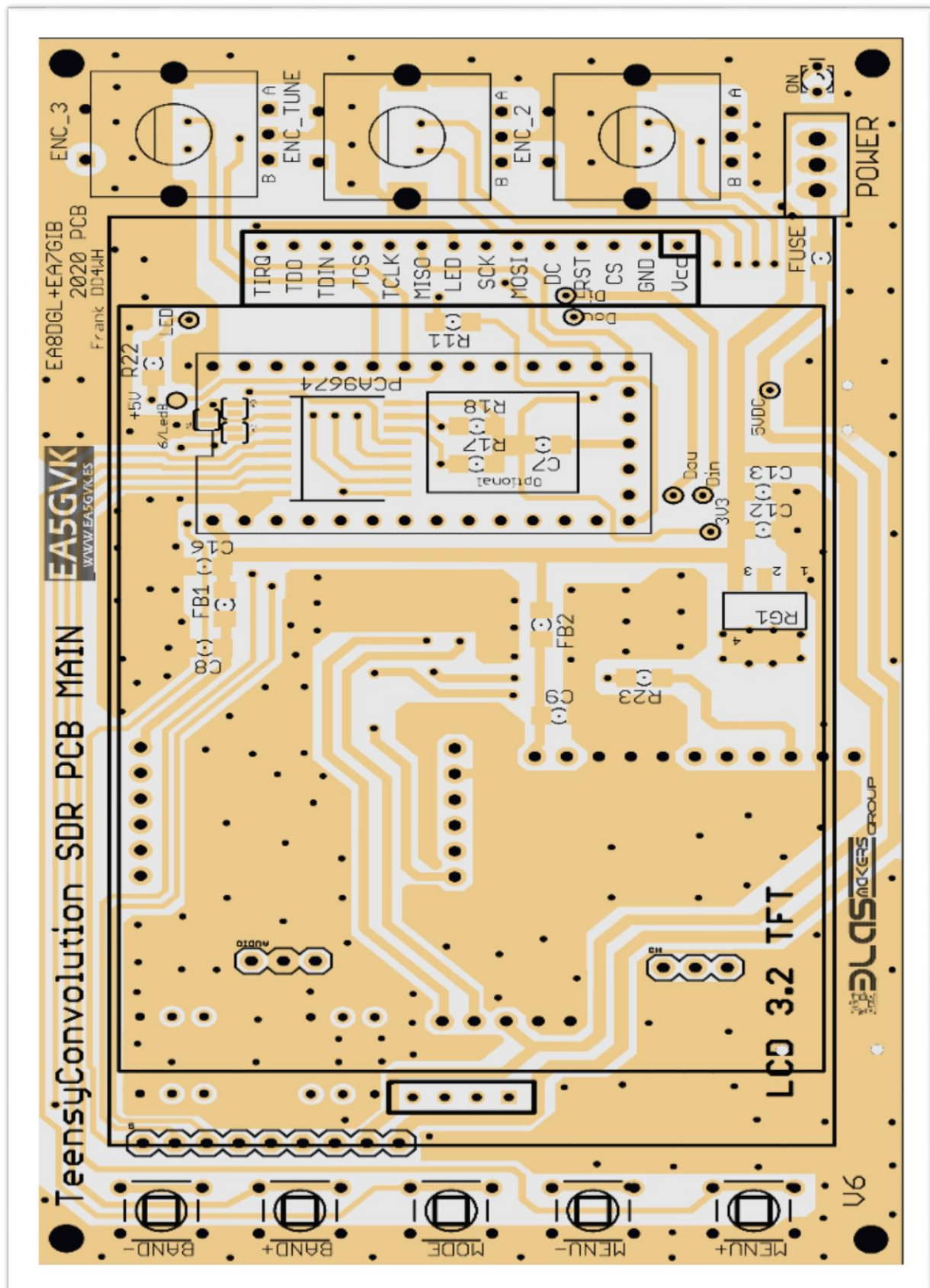
R1 R2 R3 R4 R5 R6 R11 R12 R13 R14 R15 R16 R19 R20 R23 1206 100 OHM

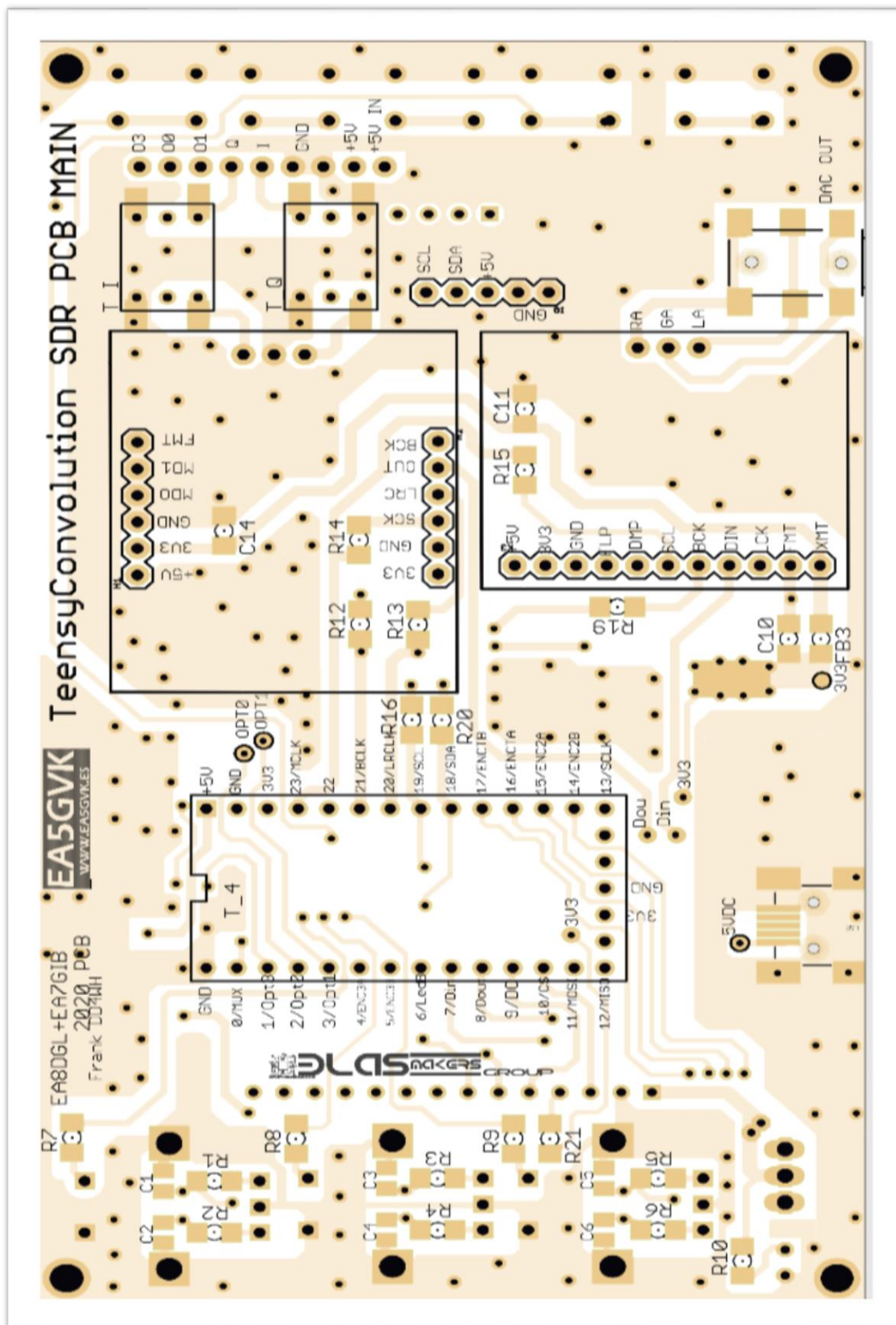
R21 R22 1206 10K

R7 R8 R9 1206 100 OHM – JUMPER 0 OHM

R10 1206 2 K

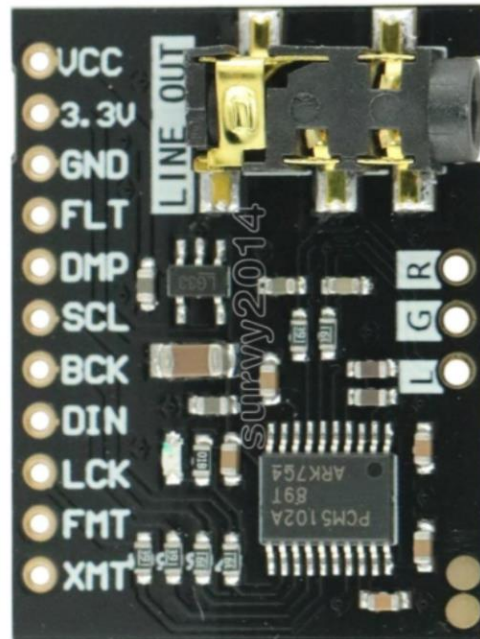
RG1 3V3 SOT223





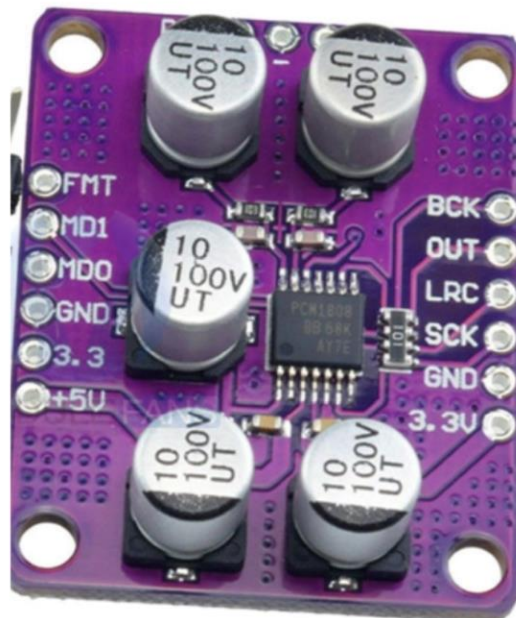
DAC PCM5102A MOD

	TO	
VCC	Vin	
3V3	NC	
GND	GND	
FLT	GND	
DMP	GND	R
SCL	23/100 Ohm	GND
BCK	21	L
DIN	7	
LCK	20	
FMT	GND	
XMT	3V3	



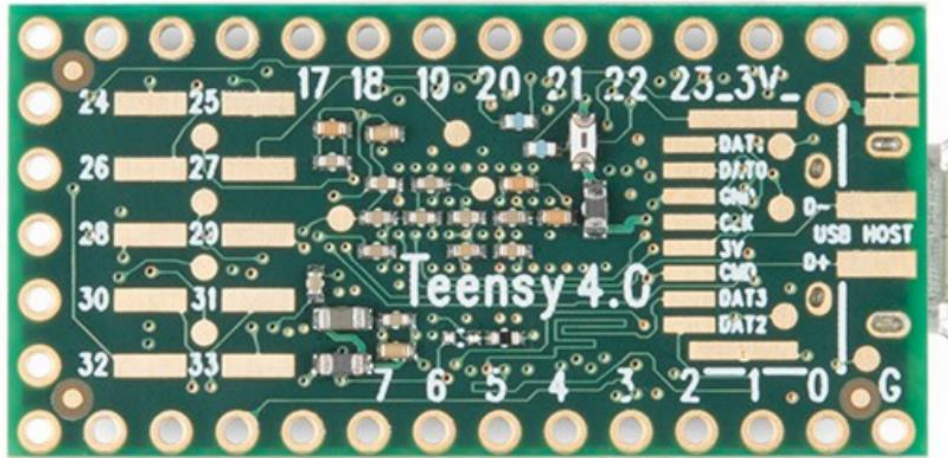
ADC PCM1808 MOD

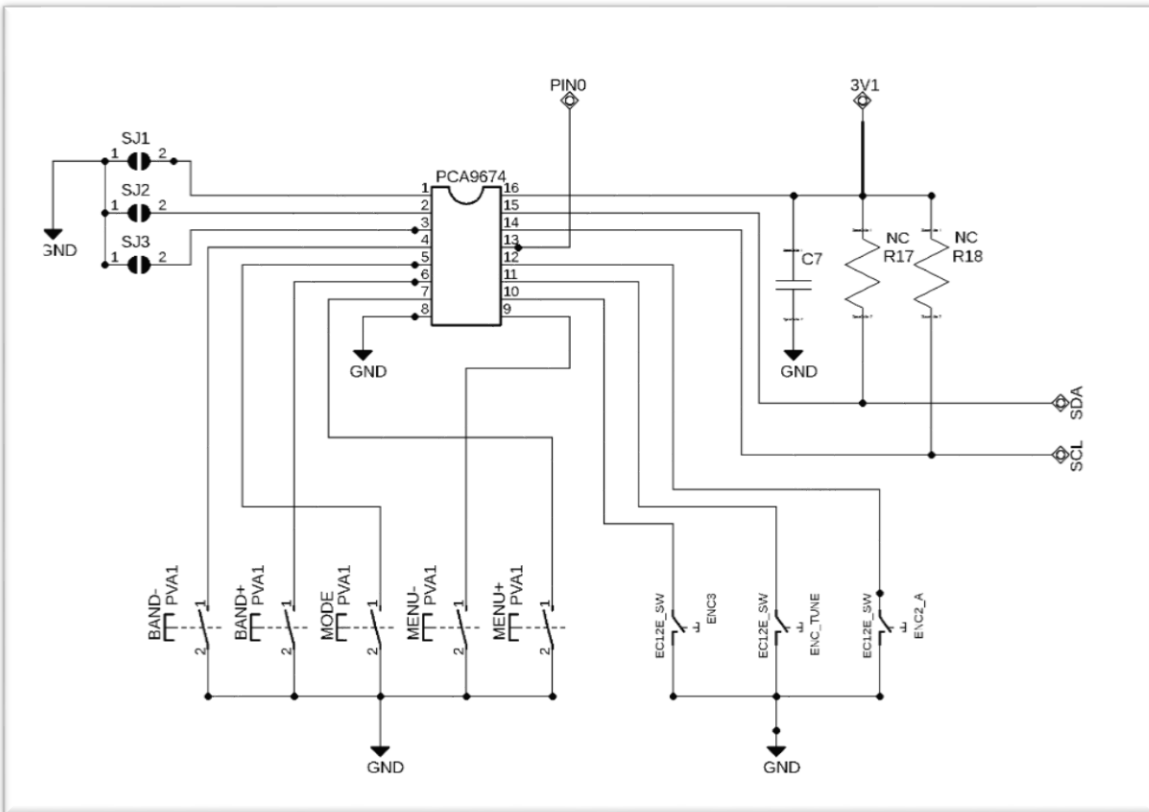
RIN	GND	LIN	
5V	Vin	3V3	NC
3V3	3V3	GND	NC
GND	GND	SCK	23/100 Ohm
MD0	GND	LRC	20/100 Ohm
MD1	GND	OUT	8
FMT	GND	BCK	21/100 Ohm



Teensy 4.0 pinout

0			
1			
2		23 MCLK	24 BAND -
3		22	26 BAND +
4 ENC 3 ?A	21 BCLK	28 MODE	29 ENC2 BUTTON 6
5 ENC 3 ?B	20 LRCLK	30 MENU --	31 ENC3 BUTTON 8
6 LED /BACKLIGHT	19 SCL	32 MENU++	33
7 DIN	18 SDA		
8 DOUT	17 ENC TUNE b		
9 DC	16 ENC TUNE a		
10 CS	15 ENC 2 ?A		
11 MOSI	14 ENC 2 ?B		
12 MISO	13 SCLK F.TFT		





Mod. MUX for SW @EA8DGL FW

R17/R18 NC

SJ1-SJ3 CLOSE

Only for QSD IQ PCB - SOFT

S0 PIN 2 / S1 PIN 3 del T4

00 de 0-4 mhz

01 de 4 a 9 mhz

10 de 9 a 16 mhz

11 > 16 mhz

Only for MSi001 PCB - SOFT

msi001_cs_pin = 1

msi001_dat_pin = 2

msi001_clk_pin = 3

EA8DGL FW / EA7GIB PCB / EB5DXJ STL 3D BOX --- Mod for MSi0001 / QSD IQ PCB – 06/2020 V1.0 DOC

DD4WH <https://github.com/DD4WH/Teensy-ConvolutionSDR>

