

U23 starts up on this 12 Mhz crystal. This makes it possible to use USB0 DFU boot mode. It should be possible to switch to GP_CLKIN provided by the clock generator IC (MCL_CLK) if desired.

C155 and C156 values are a guess. The datasheet doesn't state the acceptable voltage range for GP_CLKIN.

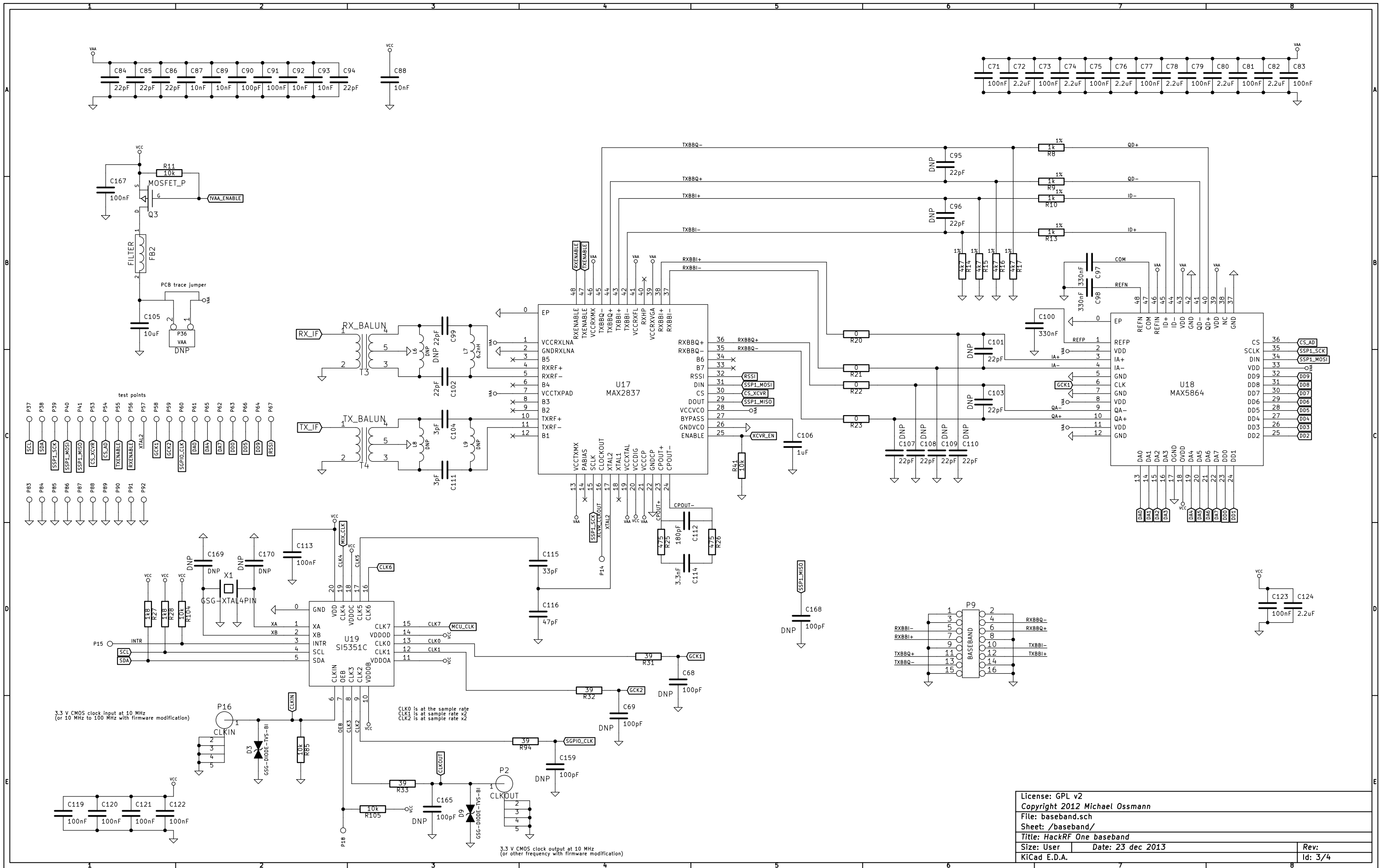
Series resistors are here because of a possible overshoot/undershoot problem. They may be able to be removed safely, anyway, they probably will minimize damage in the event of SGPIO/CPLD misconfiguration.

Default boot configuration is SPIFI. Press SW1 during reset to switch to USB0 (DFU mode).

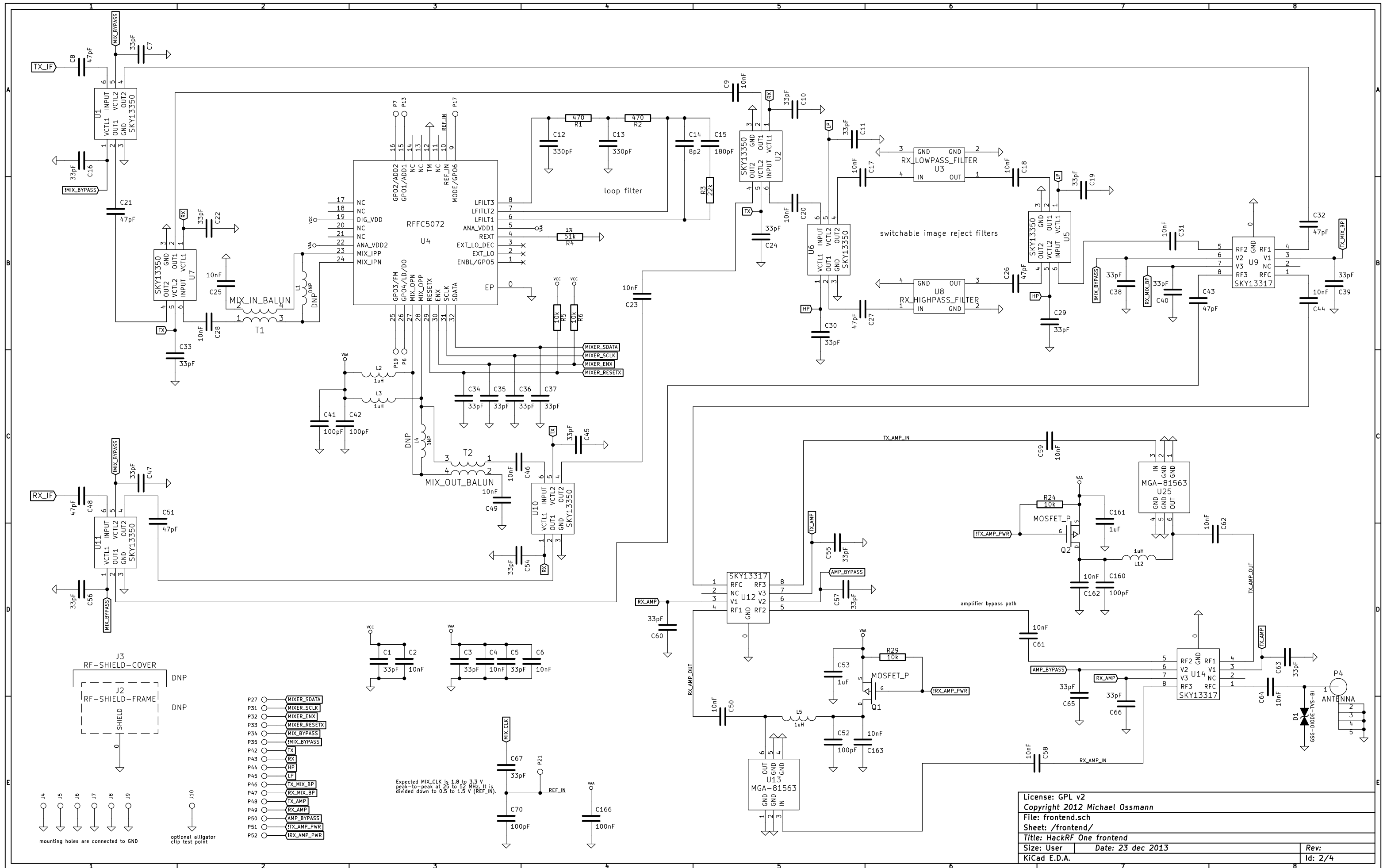
Boot selection:

P2_9	P2_8	P1_2	P1_1
USART0	GND	GND	GND
SPIFI	GND	GND	VCC
USB0	GND	VCC	VCC
SSP0	GND	VCC	VCC
USART3	VCC	GND	GND

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File: mcu.sch	
Sheet: /mcu/usb/power/	
Title: HackRF One mcu/usb/power	
Size: User	Date: 23 dec 2013
KiCad E.D.A.	Rev: Id: 4/4



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File: baseband.sch	
Sheet: /baseband/	
Title: HackRF One baseband	
Size: User	Date: 23 dec 2013
KiCad E.D.A.	Rev: Id: 3/4



P27	MIXER_SDATA
P31	MIXER_SCLK
P32	MIXER_ENX
P33	MIXER_RESETX
P34	MIX_BYPASS
P35	IMIX_BYPASS
P42	TX
P43	RX
P44	HP
P45	LP
P46	TX_MIX_BP
P47	RX_MIX_BP
P48	TX_AMP
P49	RX_AMP
P50	AMP_BYPASS
P51	ITX_AMP_PWR
P52	IRX_AMP_PWR

mounting holes are connected to GND
 optional alligator clip test point