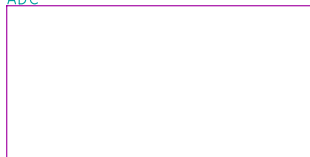
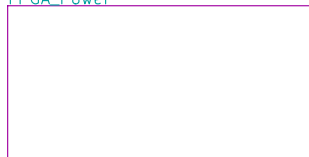


ADC



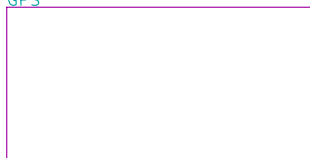
wrx.ADC.sch

FPGA_Power



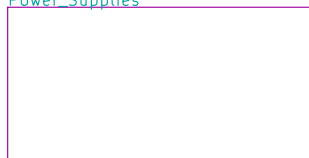
wrx.FPGA_power.sch

GPS



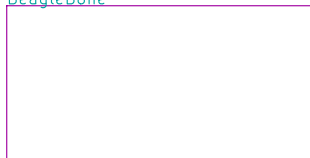
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Power_Supplies



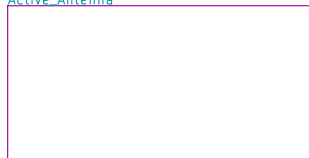
wrx.power_supplies.sch

BeagleBone



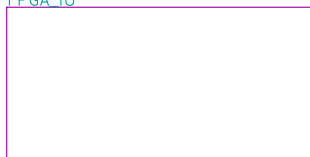
wrx.BeagleBone.sch

Active_Antenna



wrx.active_antenna.sch

FPGA_IO



wrx.FPGA_IO.sch

Power_Injector



wrx.power_injector.sch

File: wrx.sch

Sheet: /

Title: wrx

Size: A4

Date: 4 may 2015

Rev: 1

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Id: 1/9

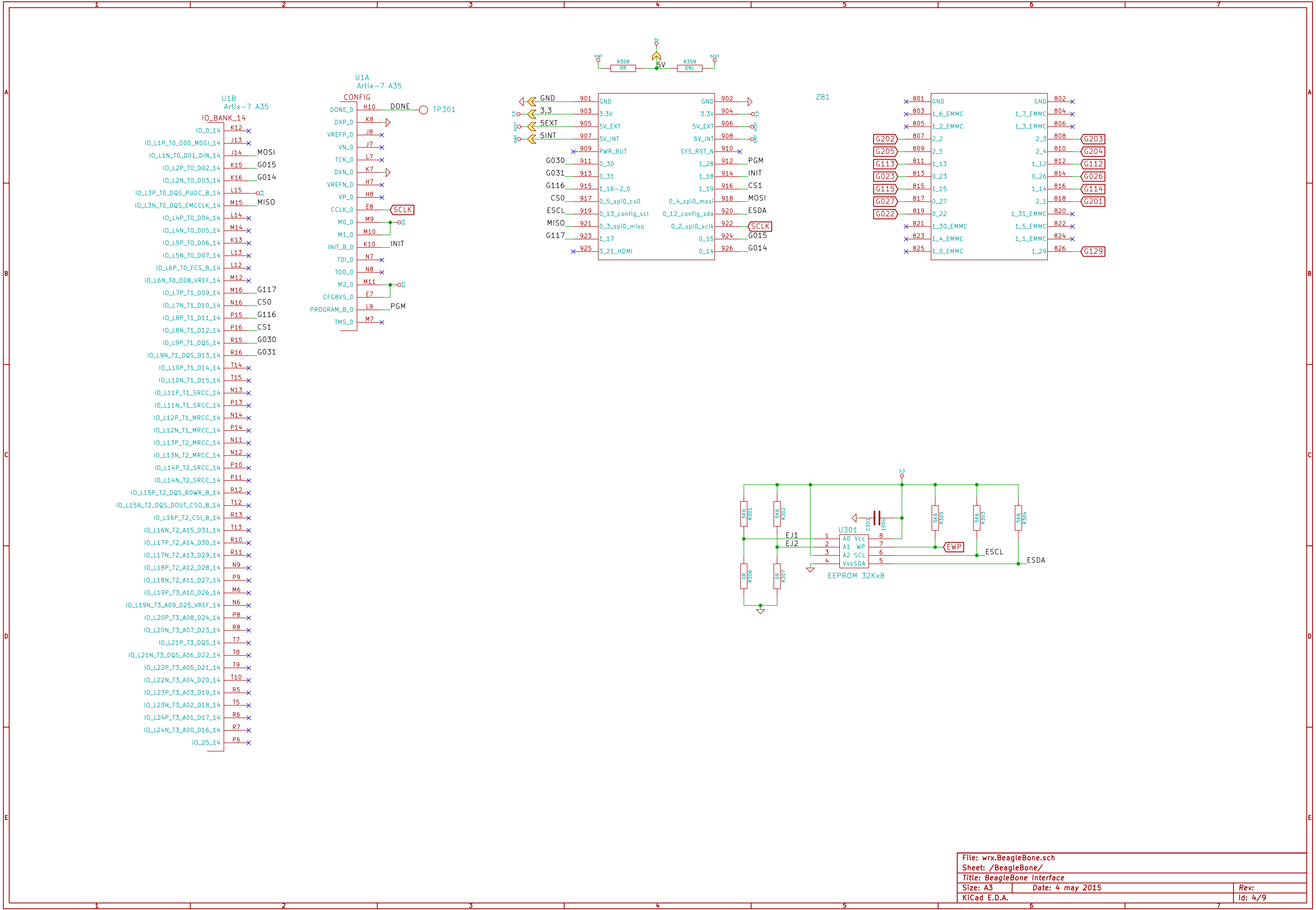
TO PWR INJ J5

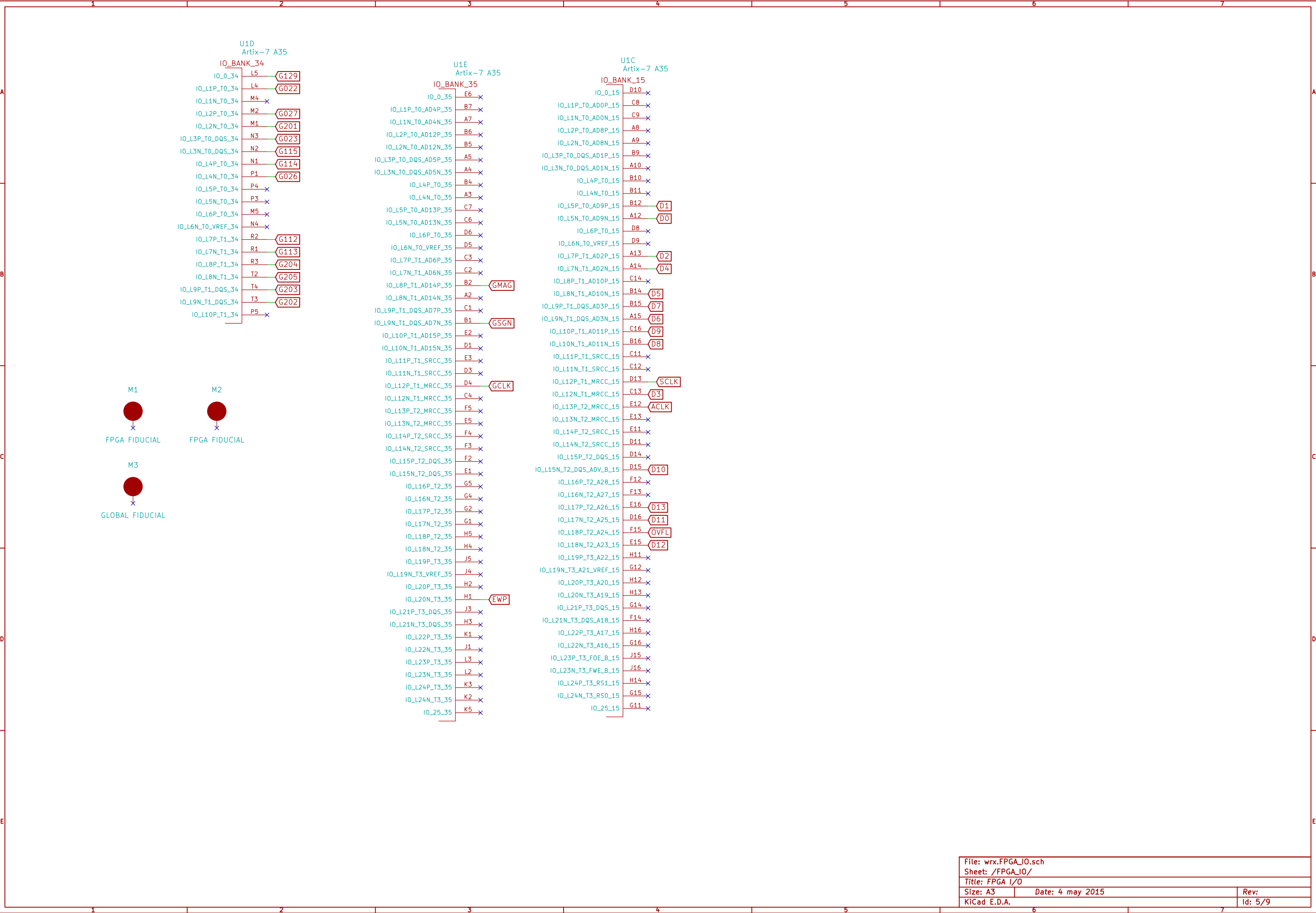
Chebyshev 30MHz LPF
See homepage.eircom.net/(tilda)ei9gq/lpf.html

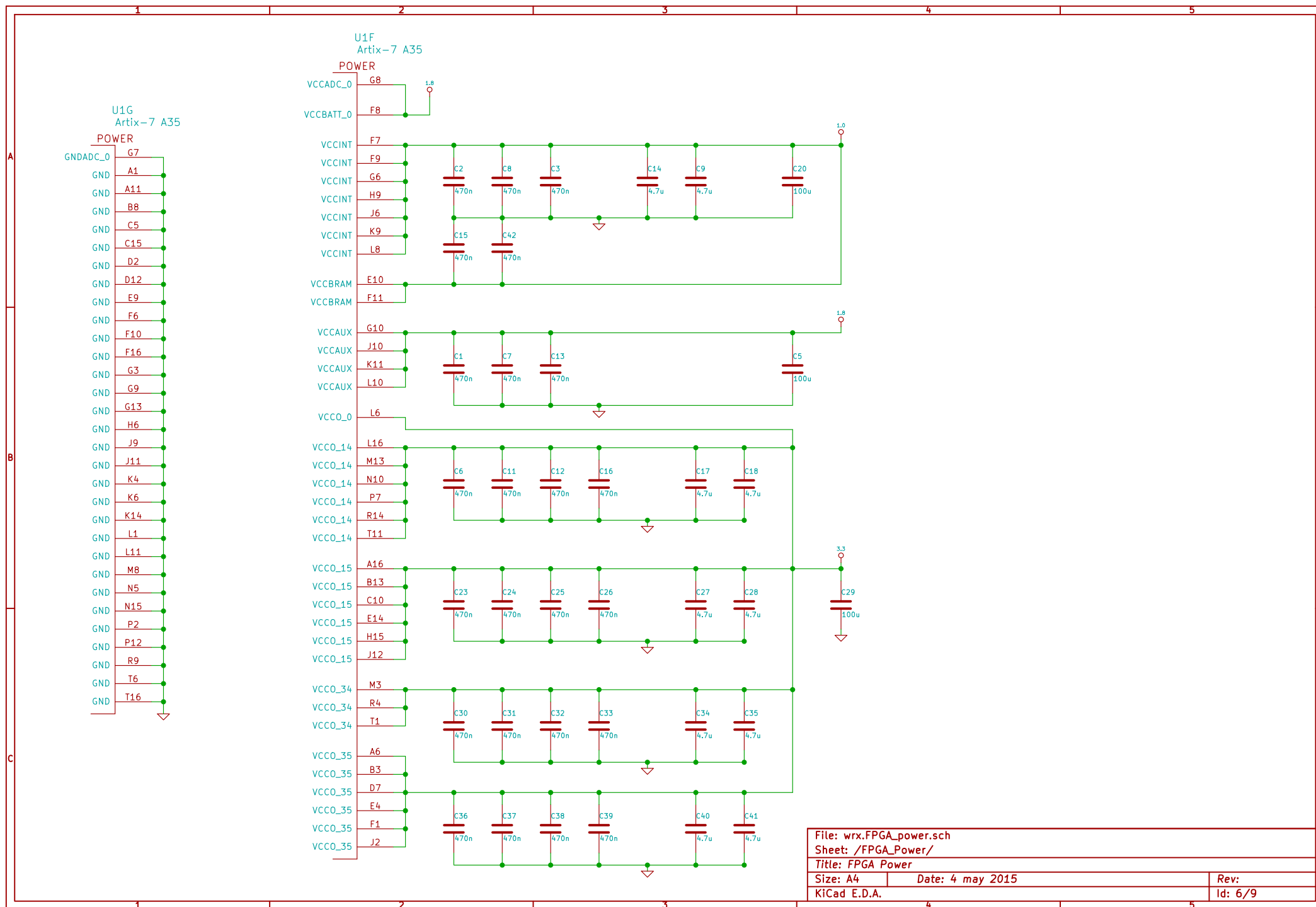
ZR402
RF_SHIELD_COVER 29x19

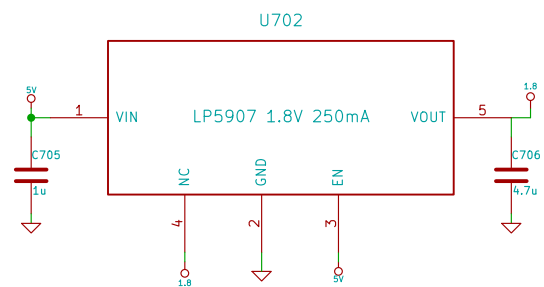
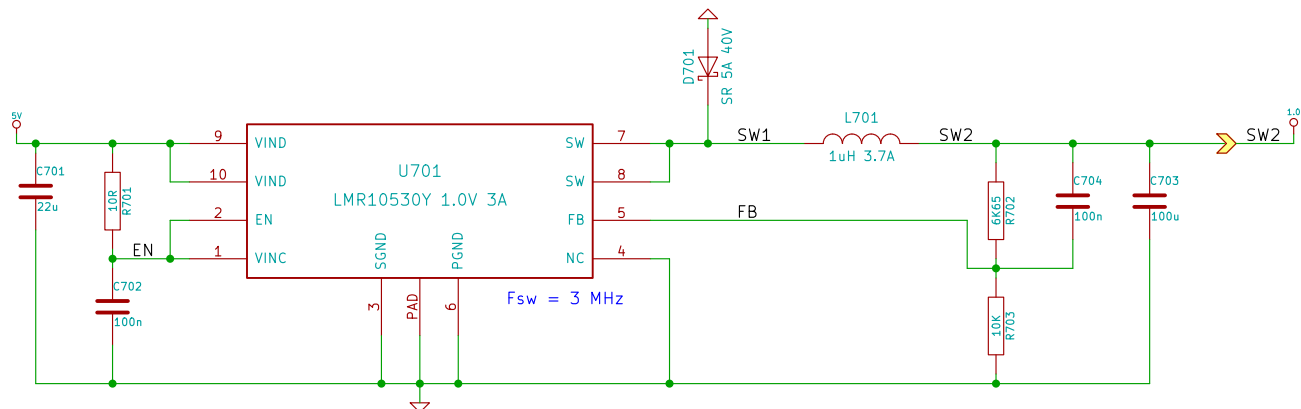
ZR401
RF_SHIELD 29x19
SHIELD

CTS 357 series
pull +/- 50 ppm
stab +/- 50 ppm
phase jitter <= 1 ps rms
-90 @ 100
-130 @ 10K
-150 > 100K

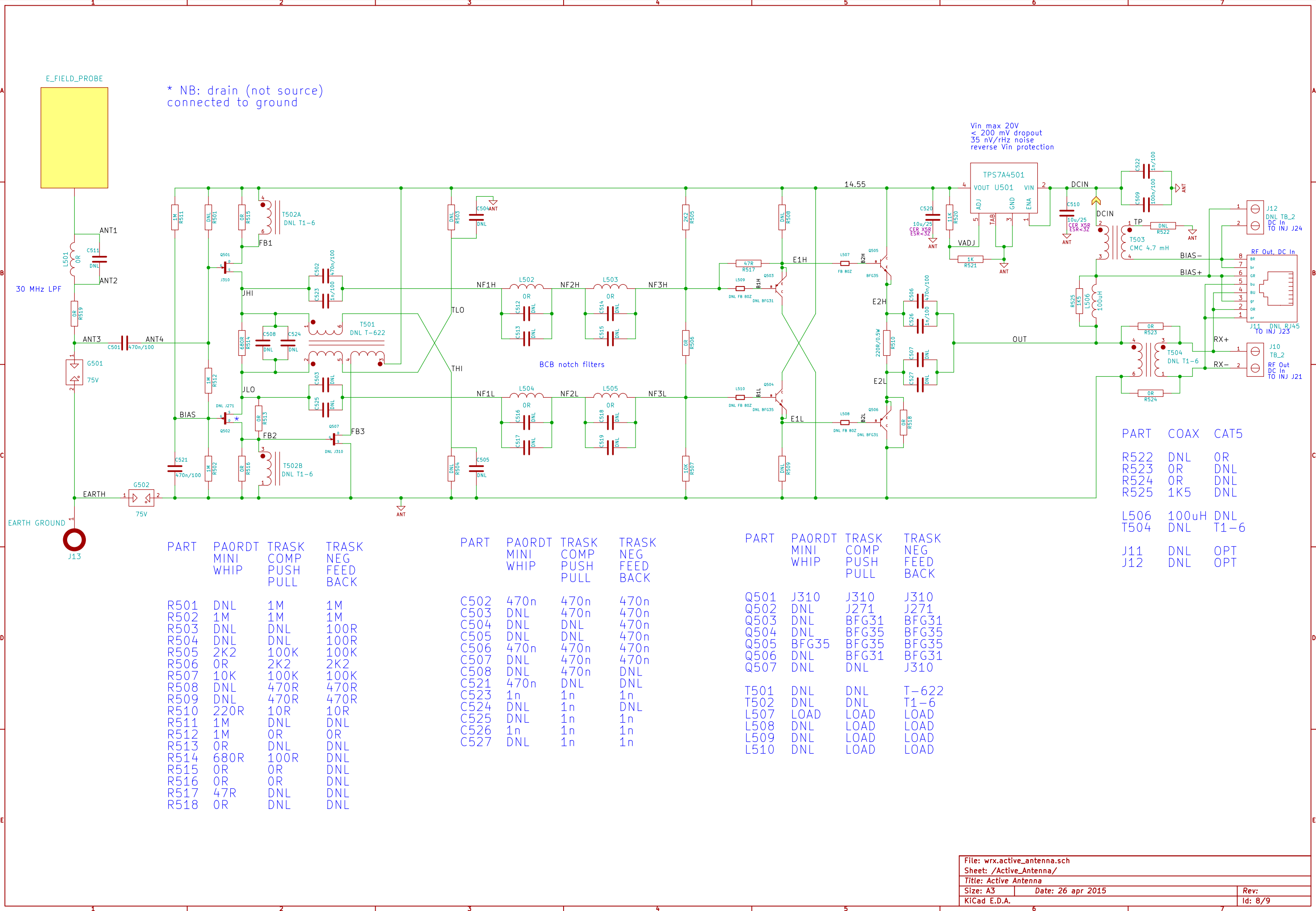








File: wrx.power_supplies.sch		
Sheet: /Power_Supplies/		
Title: Power Supplies		
Size: A4	Date: 4 may 2015	Rev:
KiCad E.D.A.		Id: 7/9



* NB: drain (not source)
connected to ground

Vin max 20V
< 200 mV dropout
35 nV/rHz noise
reverse Vin protection

PART	COAX	CAT5
R522	DNL	OR
R523	OR	DNL
R524	OR	DNL
R525	1K5	DNL
L506	100uH	DNL
T504	DNL	T1-6
J11	DNL	OPT
J12	DNL	OPT

PART	PAORDT MINI WHIP	TRASK COMP PUSH PULL	TRASK NEG FEED BACK
R501	DNL	1M	1M
R502	1M	1M	1M
R503	DNL	DNL	100R
R504	DNL	DNL	100R
R505	2K2	100K	100K
R506	OR	2K2	2K2
R507	10K	100K	100K
R508	DNL	470R	470R
R509	DNL	470R	470R
R510	220R	10R	10R
R511	1M	DNL	DNL
R512	1M	OR	OR
R513	OR	DNL	DNL
R514	680R	100R	DNL
R515	OR	OR	DNL
R516	OR	OR	DNL
R517	47R	DNL	DNL
R518	OR	DNL	DNL

PART	PAORDT MINI WHIP	TRASK COMP PUSH PULL	TRASK NEG FEED BACK
C502	470n	470n	470n
C503	DNL	470n	470n
C504	DNL	DNL	470n
C505	DNL	DNL	470n
C506	470n	470n	470n
C507	DNL	470n	470n
C508	DNL	470n	DNL
C521	470n	DNL	DNL
C523	1n	1n	1n
C524	DNL	1n	DNL
C525	DNL	1n	1n
C526	1n	1n	1n
C527	DNL	1n	1n

PART	PAORDT MINI WHIP	TRASK COMP PUSH PULL	TRASK NEG FEED BACK
Q501	J310	J310	J310
Q502	DNL	J271	J271
Q503	DNL	BFG31	BFG31
Q504	DNL	BFG35	BFG35
Q505	BFG35	BFG35	BFG35
Q506	DNL	BFG31	BFG31
Q507	DNL	DNL	J310
T501	DNL	DNL	T-622
T502	DNL	DNL	T1-6
L507	LOAD	LOAD	LOAD
L508	DNL	LOAD	LOAD
L509	DNL	LOAD	LOAD
L510	DNL	LOAD	LOAD

