Tranformer

Fichier: ATU_transformer.kicad_sch

MCU

Fichier: Nano33_ctrl.kicad_sch

Antenna switch

Fichier: Ant_sw.kicad_sch

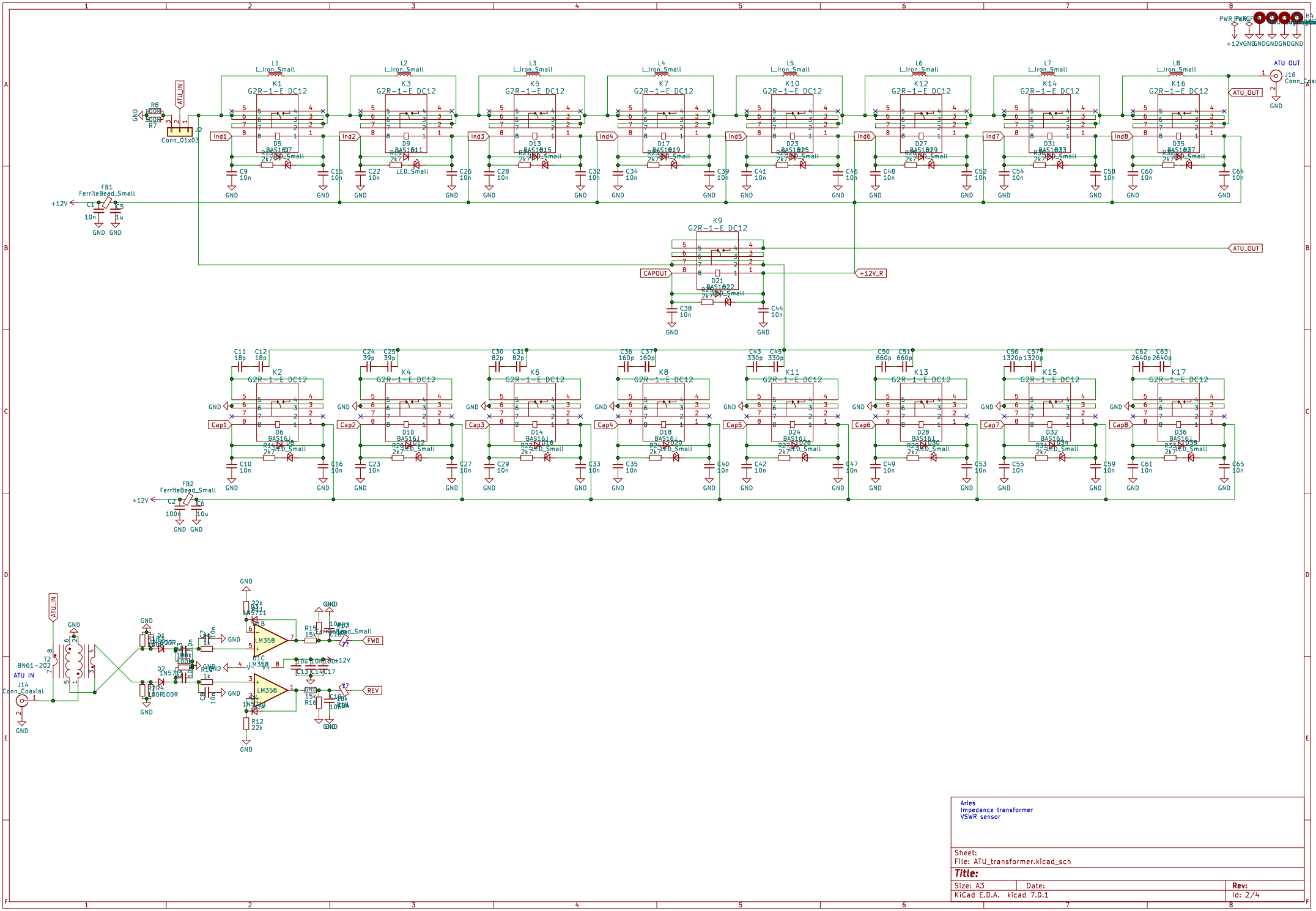
ARIES automatic antenna tuner, release 5 (5/02/1921)

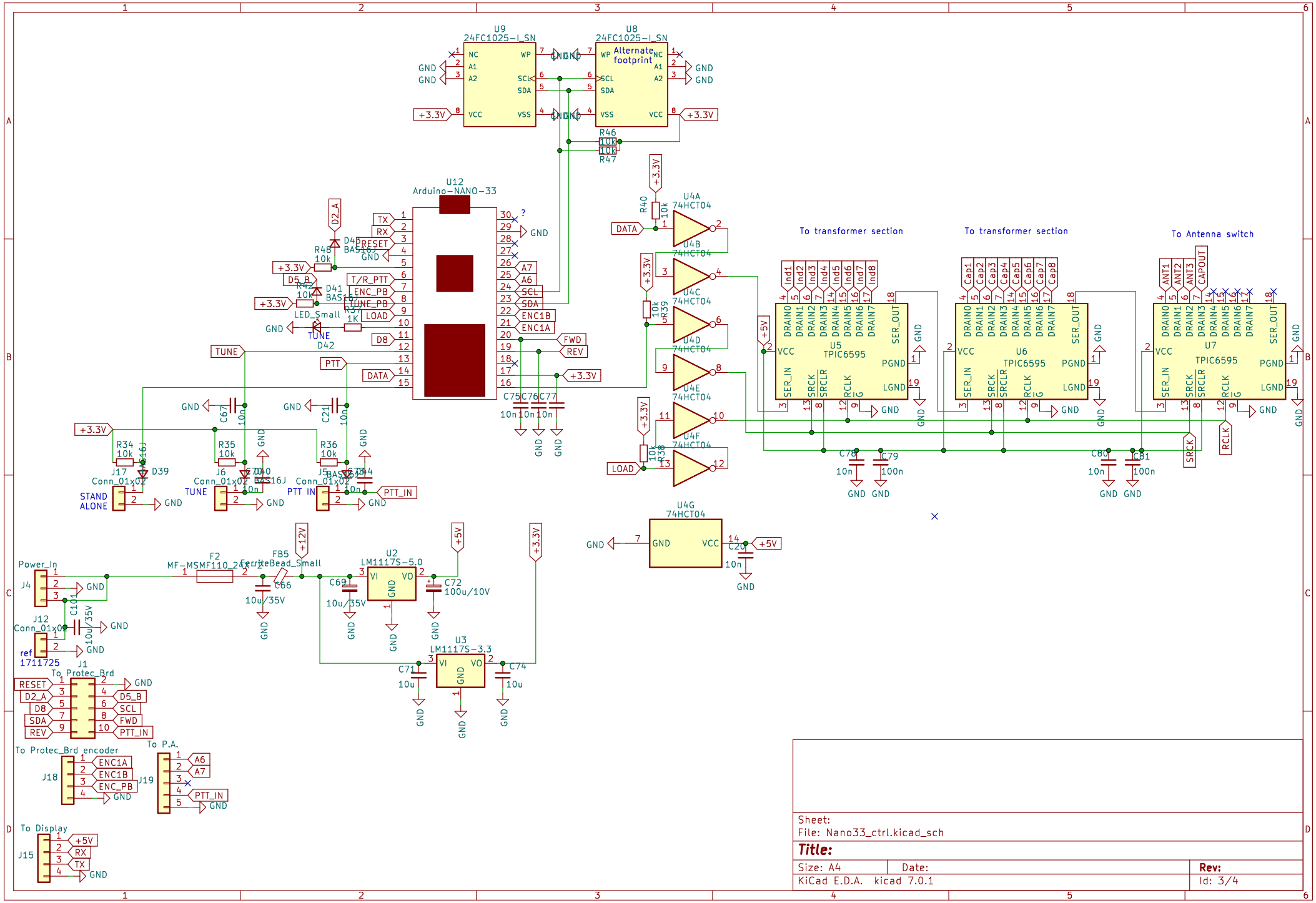
Original design : KJELL KARLSEN, LA2NI

Sheet: 1 with 3 hierachical pages (Z transformer, MCU, antenna switch)
File: K_Aries.kicad_sch

Title: OPENHPSDR ARIES ATU, KiCAD version

Size: A4	Date: 12/01/2019 (first release)22/04/2013 kicad port	**Rev:** 5.0.2K
KiCad E.D.A. kicad 7.0.1		Id: 1/4


Aries
Impedance transformer
VSWR sensor
Sheet:
File: ATU_transformer.kicad_sch
Title:
Size: A3
Date:
Rev:
KiCad E.D.A. kicad 7.0.1
Id: 2/4


U9
24FC1025-I_SN
U8
24FC1025-I_SN
Alternate footprint
R46
10k
R47
10k
U12
Arduino-NANO-33
TX
RX
PRESET
T/R_PTT
ENC_PB
TUNE_PB
LOAD
D8
TUNE
PTT
DATA
D2_A
D5_B
D8
SCL
SDA
ENC1B
ENC1A
FWD
REV
A7
A6
D42
LED_Small
D41
BAS16J
D40
BAS16J
R48
10k
R42
10k
R37
1K
R34
10k
R35
10k
R36
10k
J17
Conn_01x02
STAND ALONE
J6
Conn_01x02
TUNE
J5
Conn_01x02
PTT IN
PTT_IN
C67
10n
C21
10n
C75
10n
C76
10n
C77
10n
U4A
74HCT04
U4B
74HCT04
U4C
74HCT04
U4D
74HCT04
U4E
74HCT04
U4F
74HCT04
U4G
74HCT04
R40
10k
R39
10k
R38
10k
To transformer section
To transformer section
To Antenna switch
U5
TPIC6595
U6
TPIC6595
U7
TPIC6595
SER_IN
SRCK
SRCLR
RCLK
G
SER_OUT
VCC
PGND
LGND
C78
10n
C79
100n
C80
10n
C81
100n
Power_In
J4
C101
10u/35V
J12
Conn_01x02
ref 1711725
J1
To Protec_Brd
RESET
D2_A
D8
SDA
REV
D5_B
SCL
FWD
PTT_IN
F2
MF-MSMF110_24
FB5
FerriteBead_Small
C66
10u/35V
U2
LM1117S-5.0
C69
10u/35V
C72
100u/10V
U3
LM1117S-3.3
C71
10u
C74
10u
C20
10n
To Protec_Brd encoder
J18
ENC1A
ENC1B
ENC_PB
To P.A.
J19
A6
A7
PTT_IN
To Display
J15
+5V
RX
TX
Sheet:
File: Nano33_ctrl.kicad_sch
Title:
Size: A4
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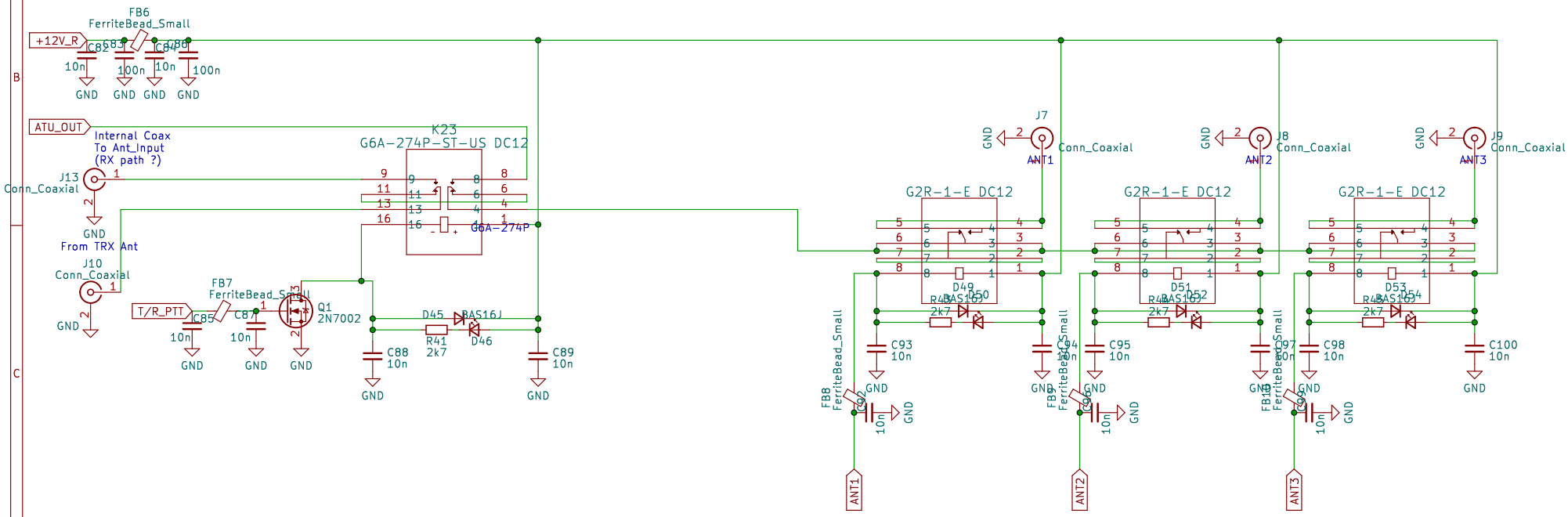
KiCad E.D.A. kicad 7.0.1
Id: 3/4

all BNC connector
Amphenol 031-5329-51RFX, ref mouser
523-31-5329-51RFX



Sheet: File: Ant_sw.kicad_sch		
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Size: A4	Date:	**Rev:**
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