VC1902-PA-VIVA1596
VC1802-PA-VIVA1596

LOADSLAMMER
TRUST AND VERIFY

Xilinx Power Test Adaptor (PTA) - to test power delivery network to Versal ACAP VIVA1596 series FPGA's

ProGrAnalog Corp.
08/18/2023
Rev3.2

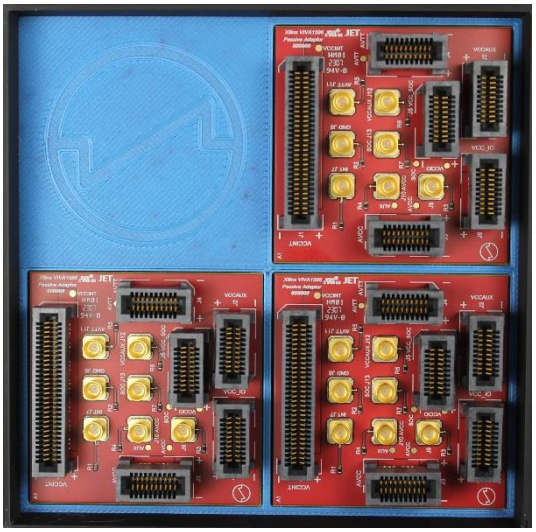
Features

- Set of 3 Xilinx Power Test Adaptors (PTA) for PDN testing AMD Xilinx Versal ACAP AI VIVA1596 series FPGAs
- Options available for VC1902, VC1802.
- 6 Samtec connectors to slam: VCCINT, VCC_IO, VCC_SOC, VGTY_AVTT, VCCAUX, AVCC
- 8 SMP connectors for testing: VCCINT_SENSE, GND_SENSE, GND, VCC_IO, VCC_SOC, VGTY_AVTT, VCCAUX, AVCC
- PTA with BGA footprint reflows onto VIVA1596 PCB pads.
- Remote Vsense on Samtec connectors and SMP mini connectors.
- Most rails can be tested with an LSP200 controller.
- VCCINT >100A support with an LSP1000RS controller.
- GUI supports transient, pulse train, impedance and 3D plots.

Typical Test Setup

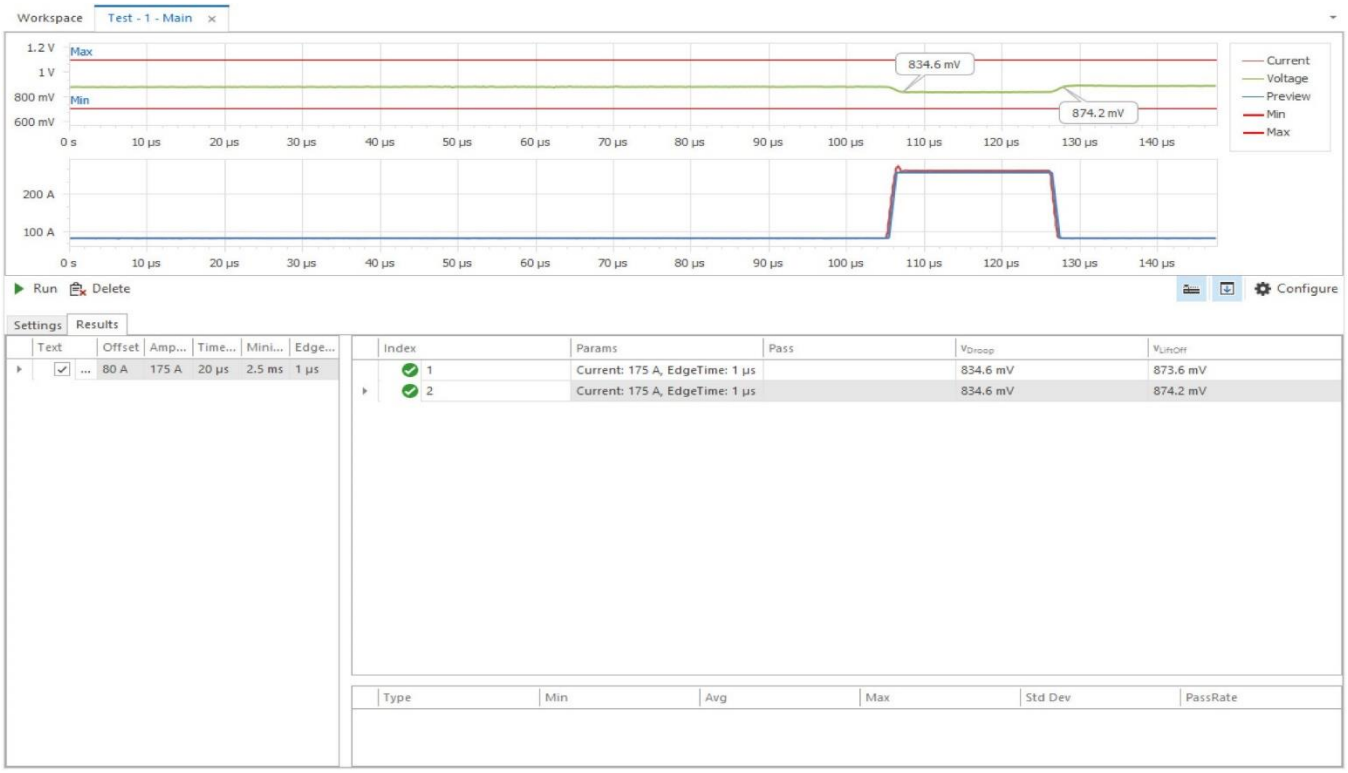
- Xilinx PTA reflowed onto the test board.
- LSP1000RS connected into VCCINT connector.

Pack of 3 -VIVA1596 Series Xilinx PTA's

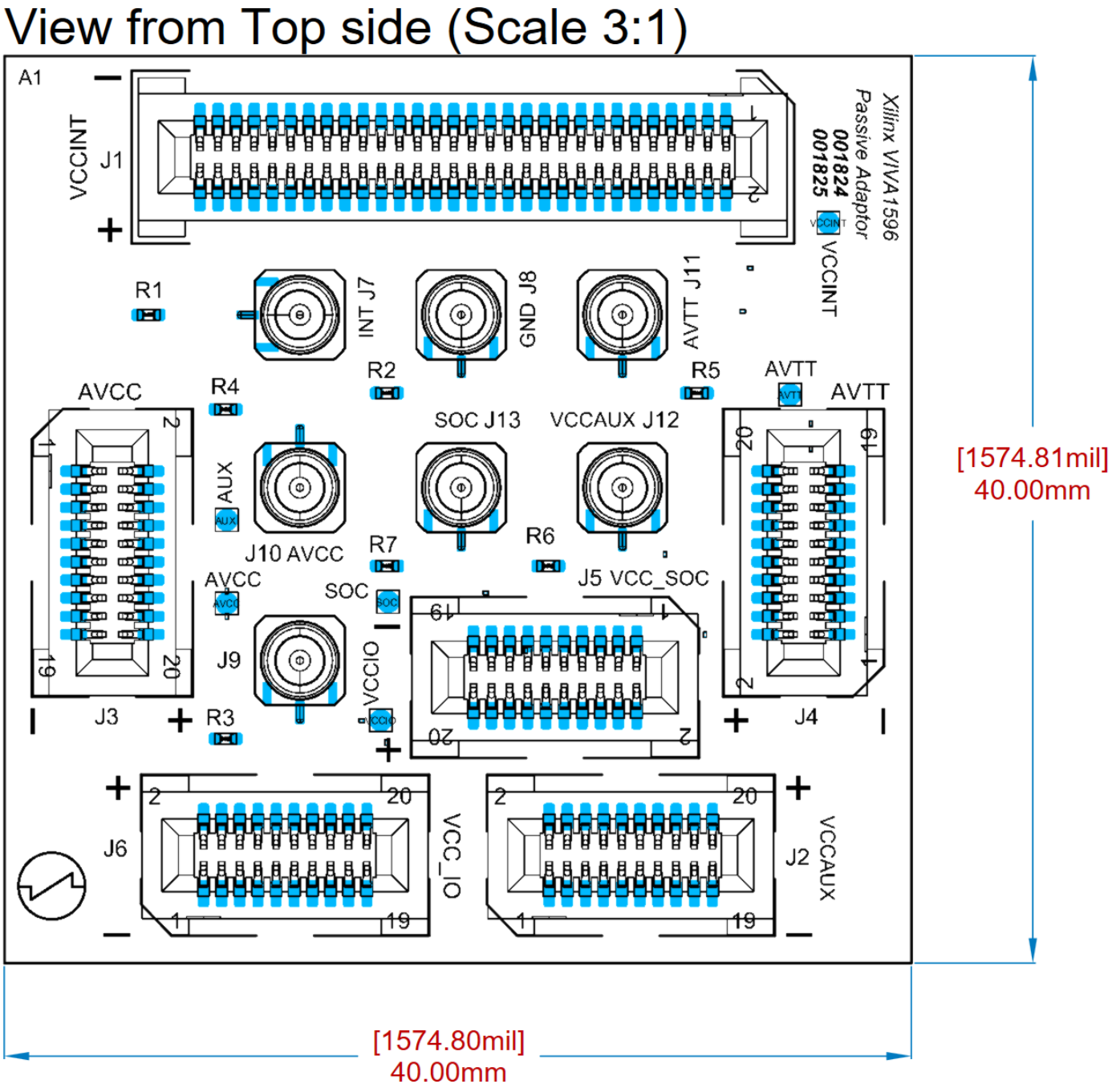


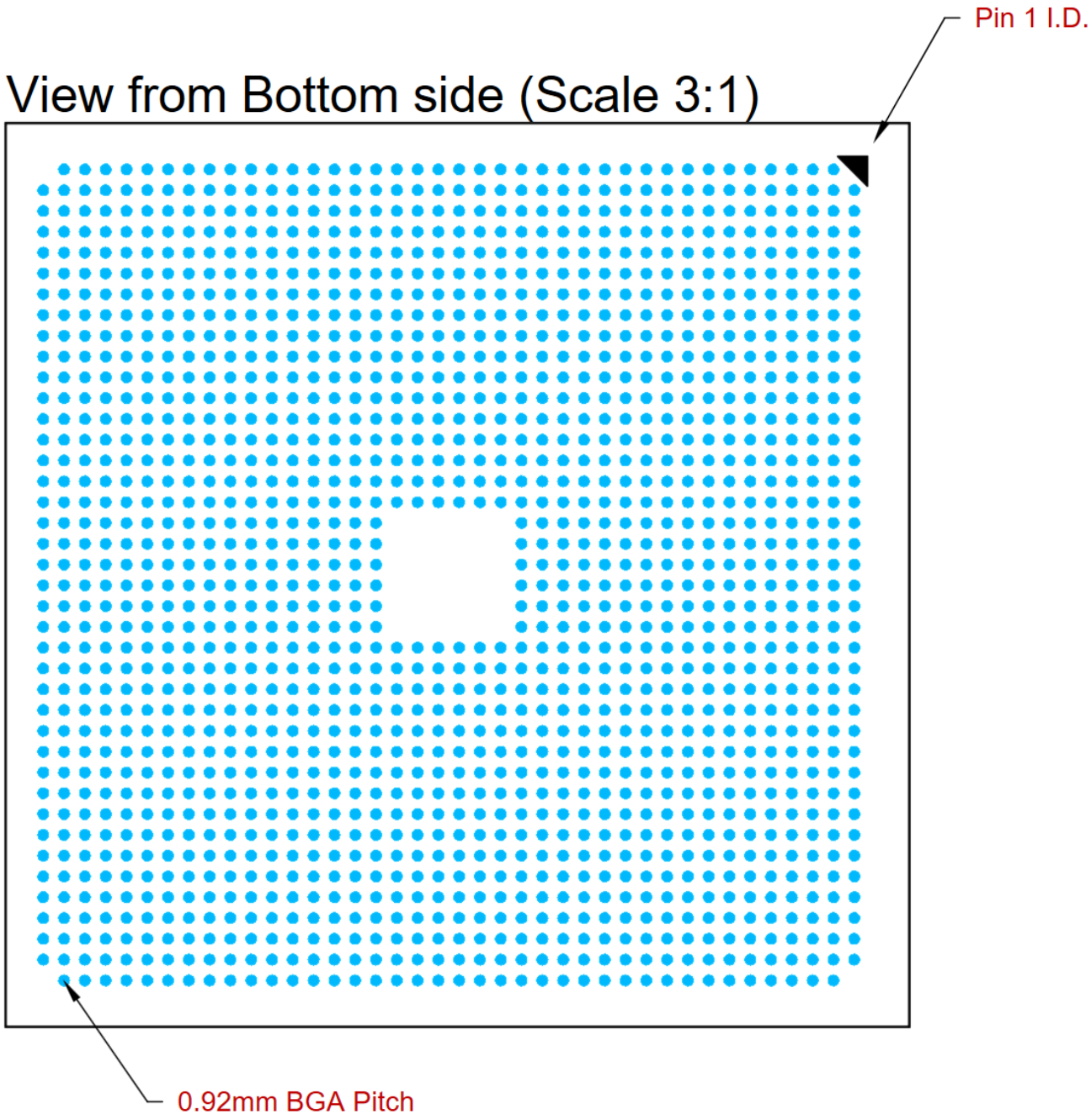
LoadSlammer GUI

Transient test



Mechanical Specs

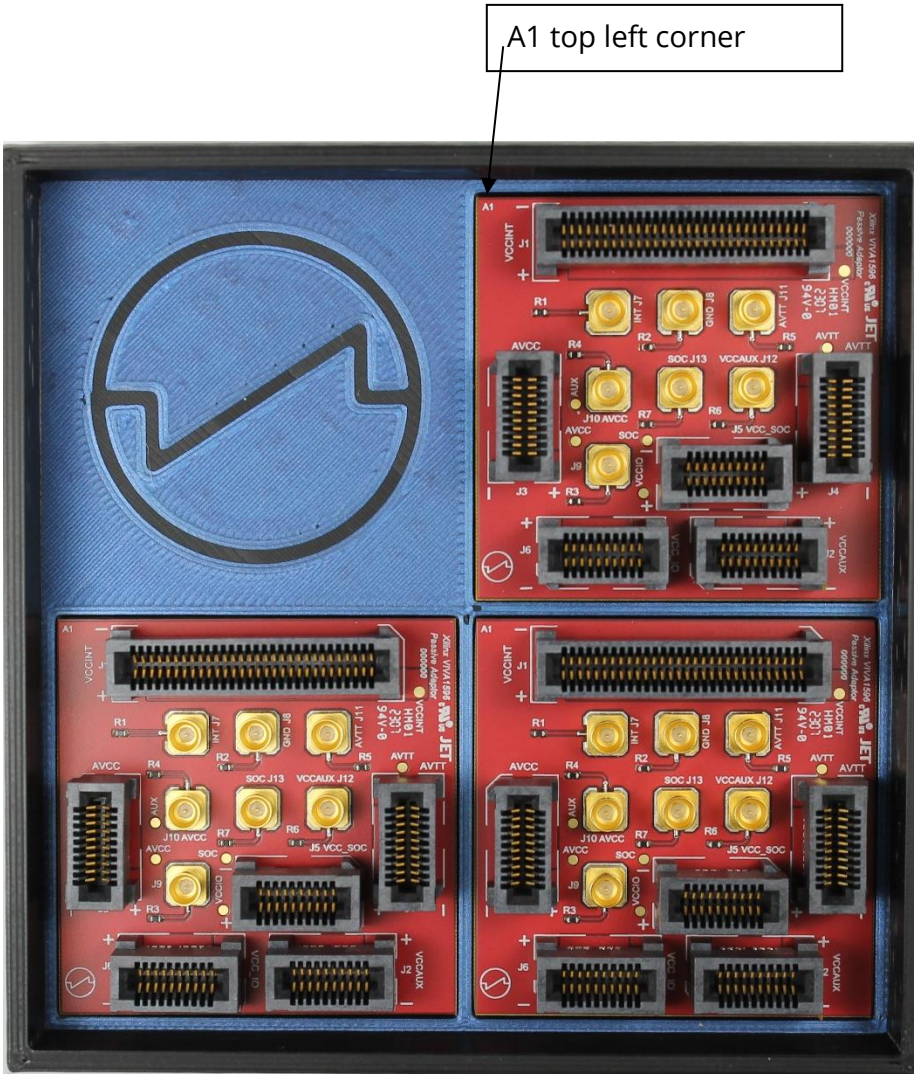




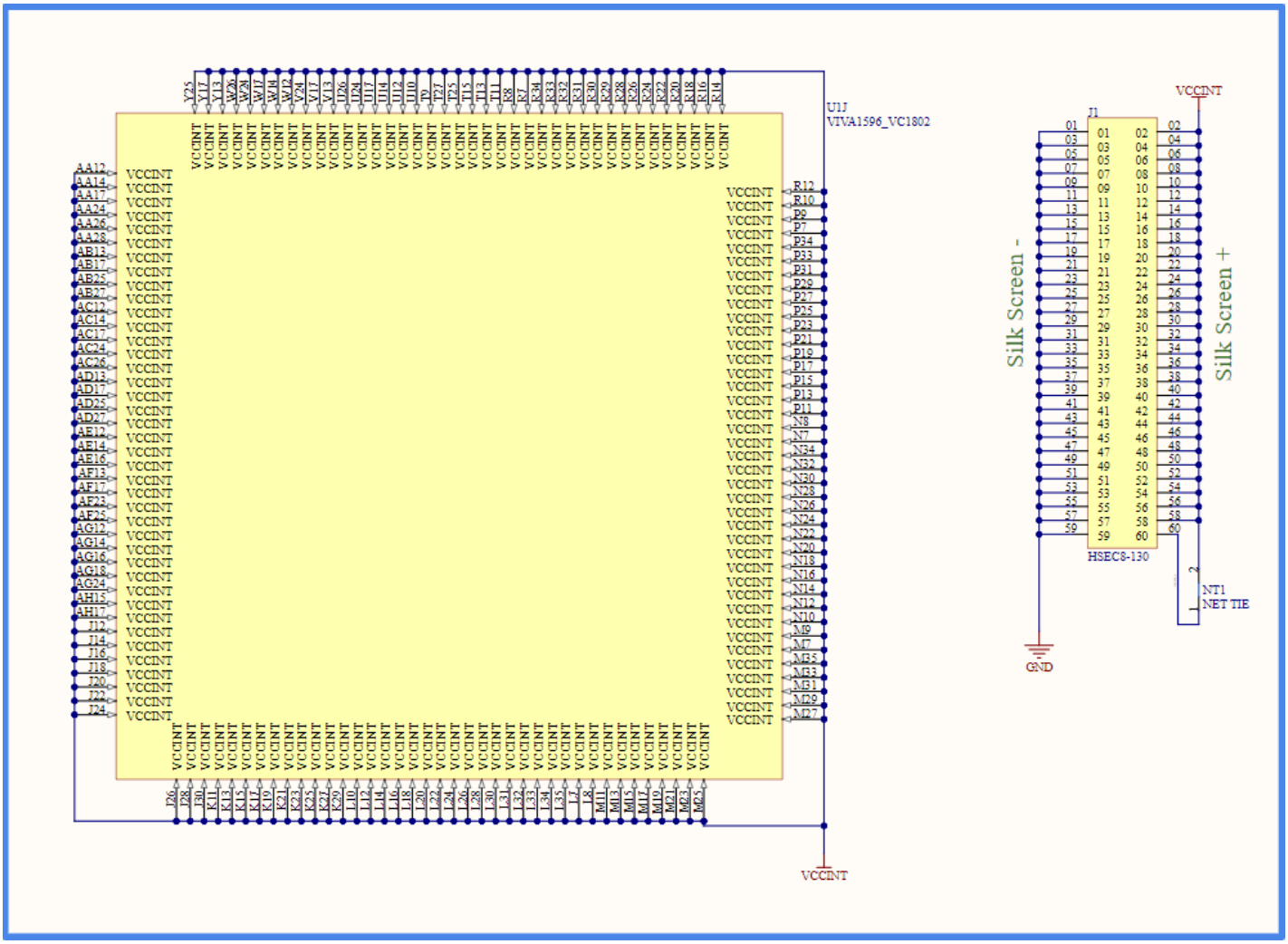
Sn96.5-Ag3.0-Cu0.5 0.5mm balls

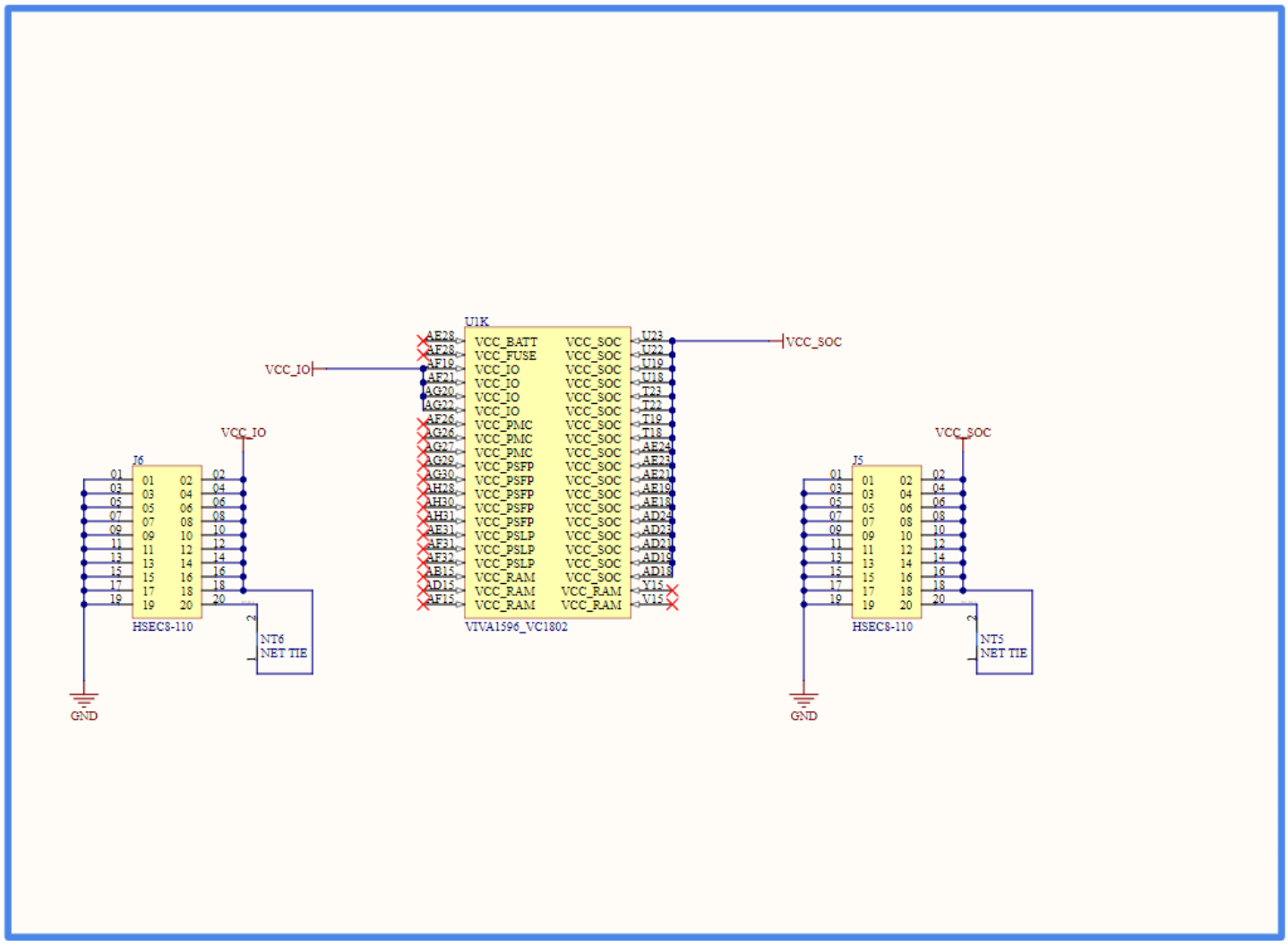
Packing Tray Specs

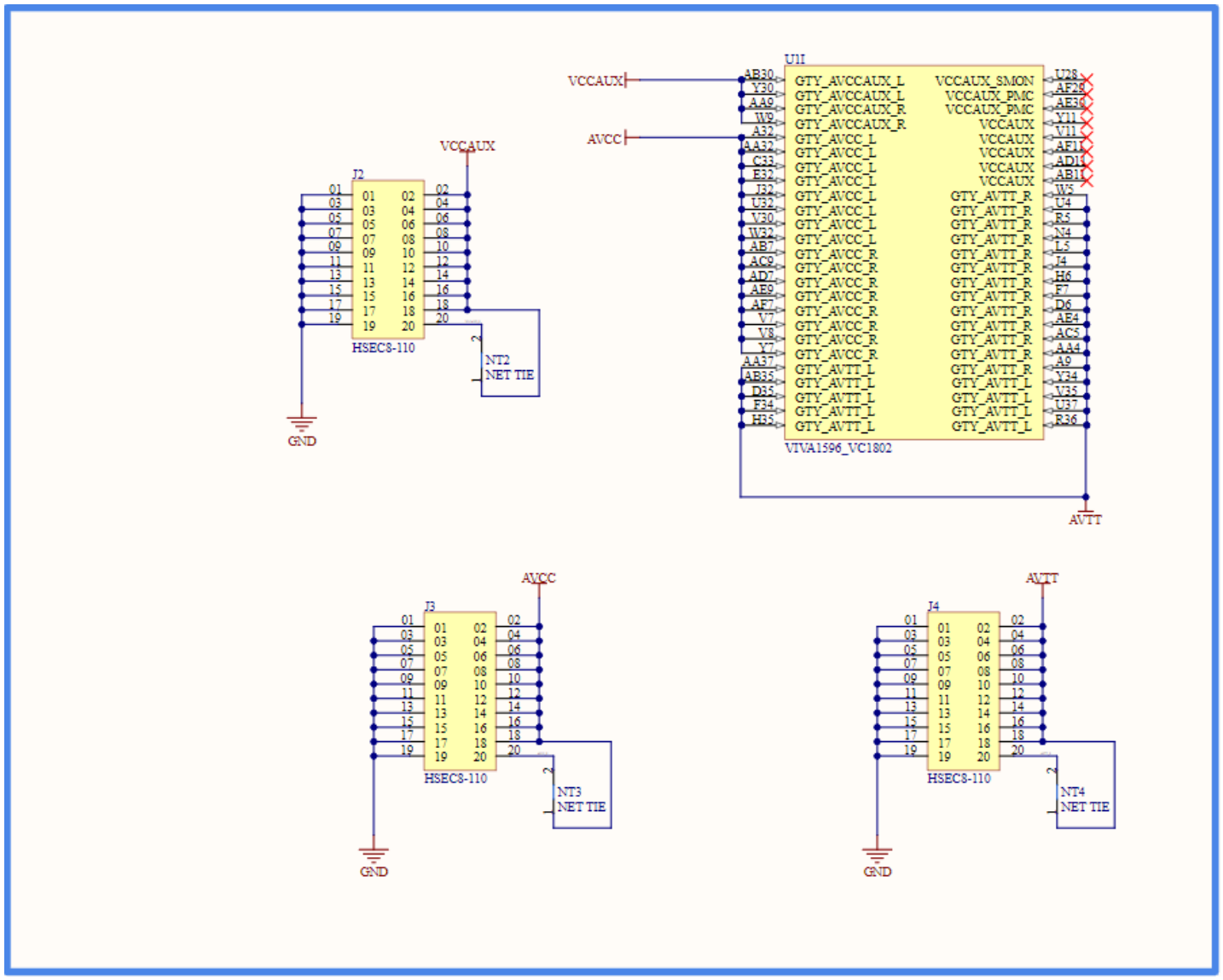
40x40mm package will have a 92x92x15mm tray

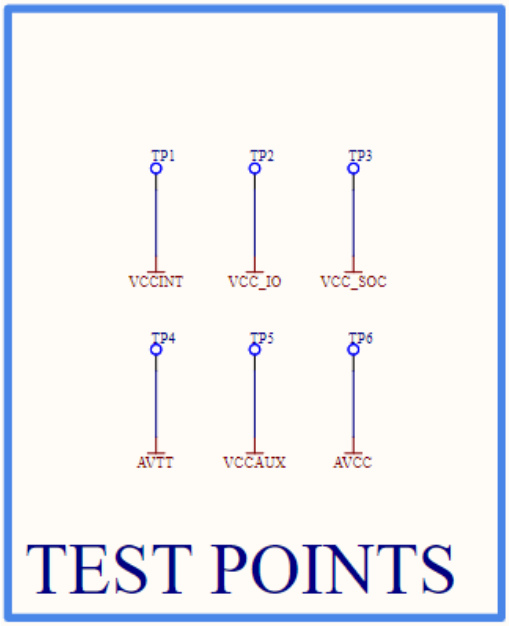


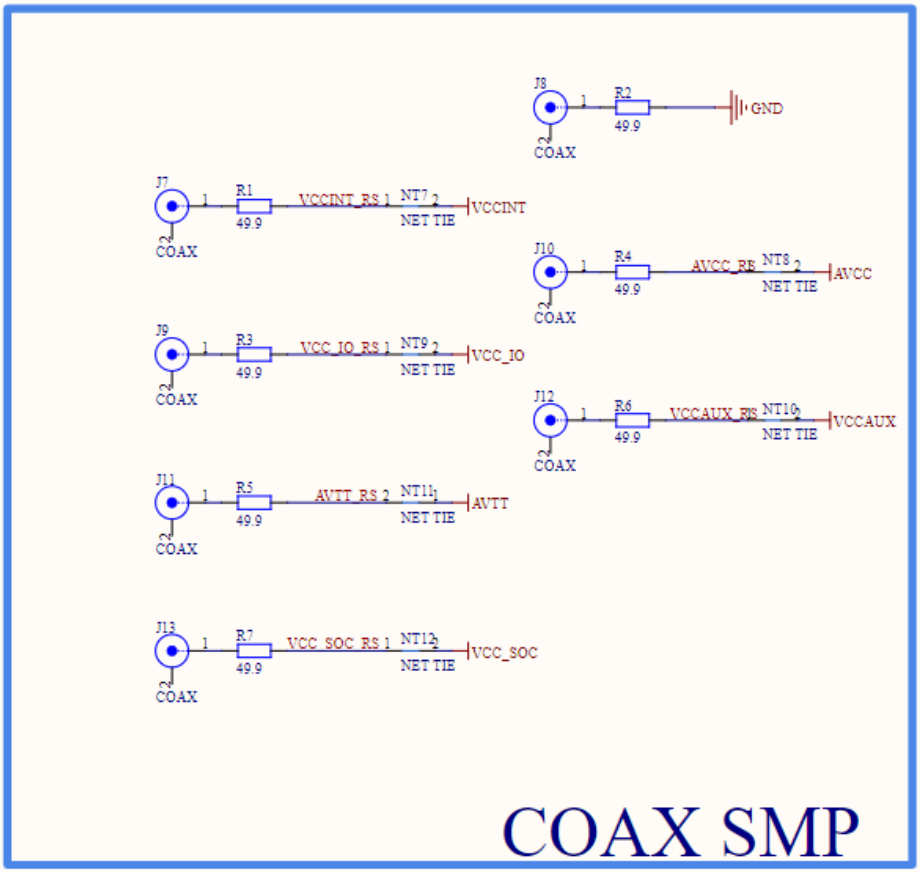
Schematics

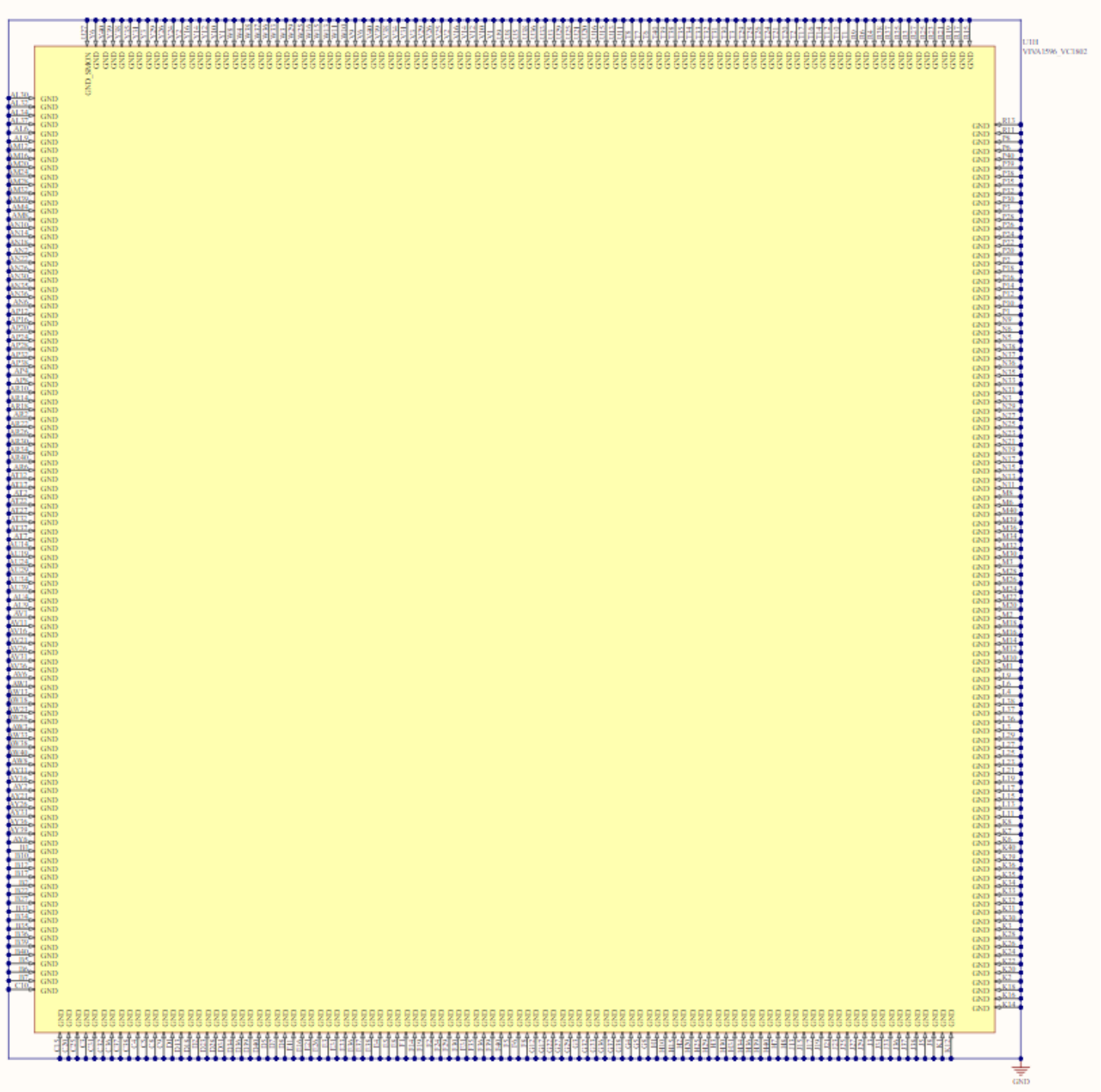

U1J
VIVA1596_VC1802
VCCINT
J1
HSEC8-130
Silk Screen -
Silk Screen +
NT1
NET TIE
GND

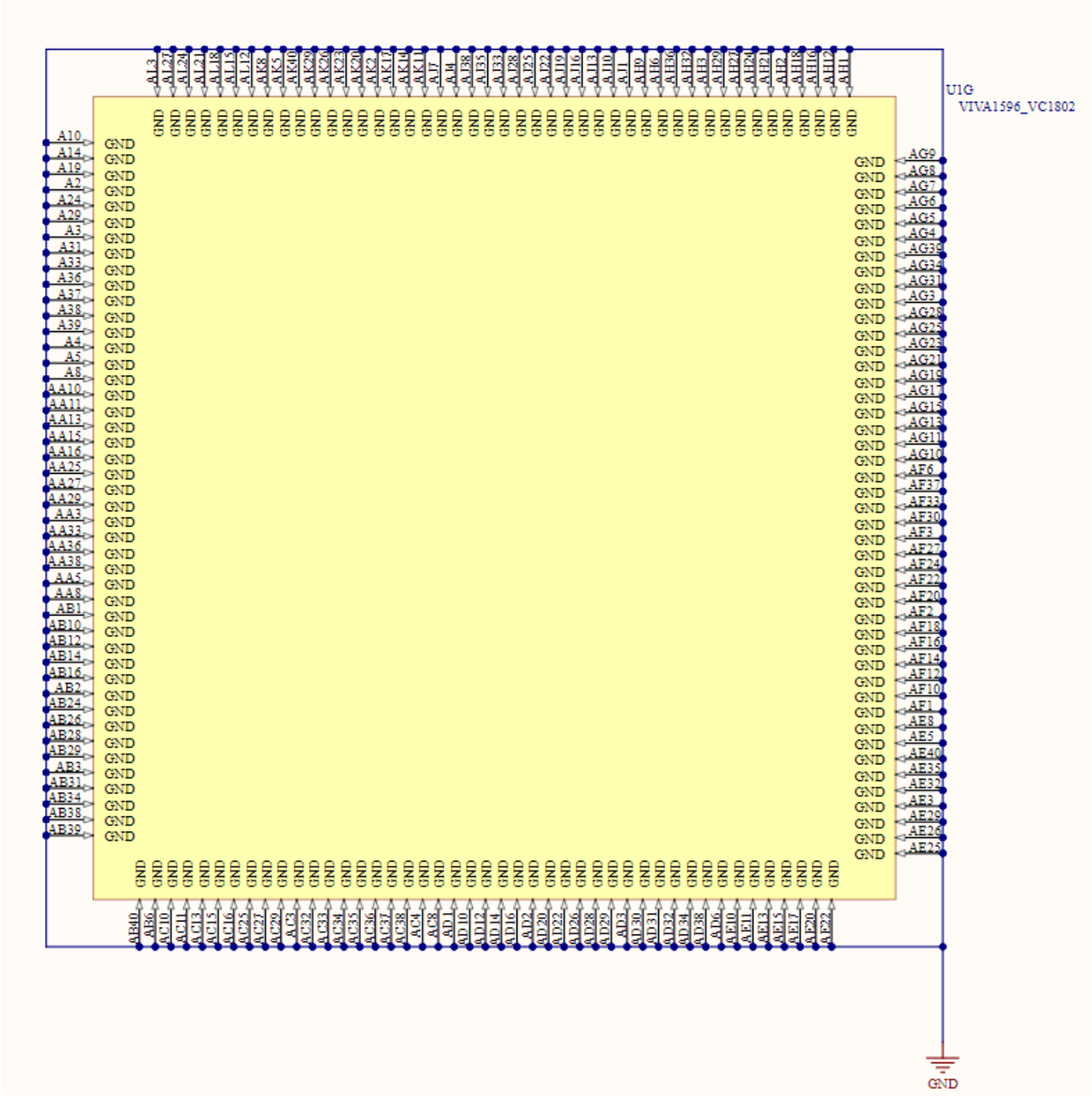

U1K
VCC_BATT
VCC_FUSE
VCC_IO
VCC_PMC
VCC_PSFP
VCC_PSLP
VCC_RAM
VCC_SOC
VIVA1596_VC1802
VCC_IO
VCC_SOC
J6
HSEC8-110
NT6
NET TIE
J5
HSEC8-110
NT5
NET TIE
GND
GND


U1I
VCCAUX
AVCC
GTY_AVCCAUX_L
GTY_AVCCAUX_R
GTY_AVCC_L
GTY_AVCC_R
GTY_AVTT_L
GTY_AVTT_R
VCCAUX_SMON
VCCAUX_PMC
VCCAUX
VIVA1596_VC1802
AVTT
J2
HSEC8-110
NT2
NET TIE
GND
J3
NT3
J4
NT4


TP1
TP2
TP3
VCCINT
VCC_IO
VCC_SOC
TP4
TP5
TP6
AVTT
VCCAUX
AVCC
TEST POINTS


J8
R2
49.9
GND
COAX
J7
R1
49.9
VCCINT_RS 1
NT7
NET TIE
VCCINT
COAX
J10
R4
49.9
AVCC_RS
NT8
NET TIE
AVCC
COAX
J9
R3
49.9
VCC_IO_RS 1
NT9
NET TIE
VCC_IO
COAX
J12
R6
49.9
VCCAUX_RS
NT10
NET TIE
VCCAUX
COAX
J11
R5
49.9
AVTT_RS 2
NT11
NET TIE
AVTT
COAX
J13
R7
49.9
VCC_SOC_RS 1
NT12
NET TIE
VCC_SOC
COAX
COAX SMP




U1G
VIVA1596_VC1802
GND