

VC2602-PA-VSVH1760
VC2802-PA-VSVH1760
VE2602-PA-VSVH1760
VE2802-PA-VSVH1760



Xilinx Power Test Adaptor (PTA) - to test power delivery network (PDN) to Versal ACAP VSVH1760 series FPGA's

ProGrAnalog Corp.
08/18/2023
Rev 3.2

Features

- Set of 3 Xilinx Power Test Adaptors (PTA) for PDN testing AMD Xilinx Versal VSVH1760 series FPGAs
- Options available for VC2602, VC2802, VE2602, VE2802
- 6 Samtec connectors to test: VCCINT, VCC_IO, VCC_SOC, VGTY_AVTT, VCCAUX, AVCC
- 8 mini SMP connectors for measuring: VCCINT_SENSE, GND_SENSE, GND, VCC_IO, VCC_SOC, VGTY_AVTT, VCCAUX, AVCC
- Xilinx PTA with BGA footprint reflows onto VSVH1760 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 -VSVH1760 Series Xilinx PTA's



LoadSlammer GUI

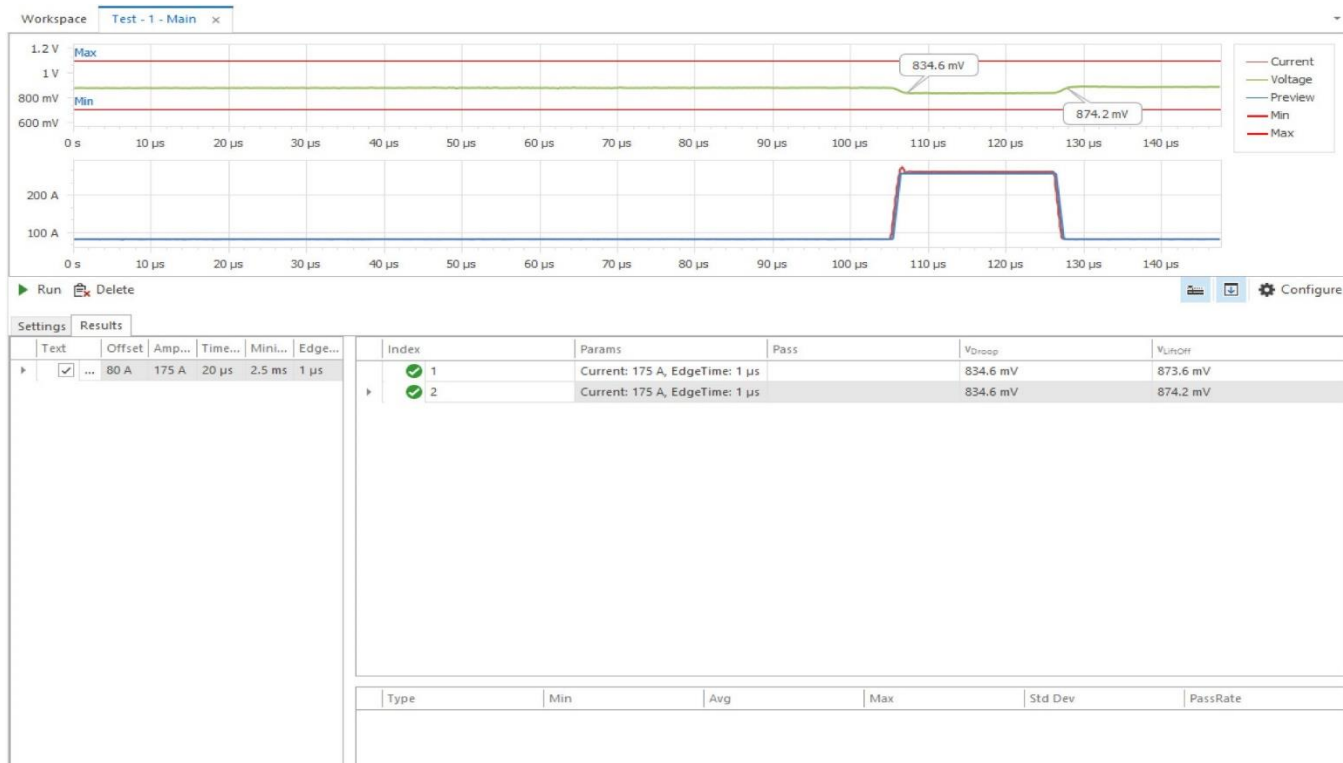
Workspace **Test - 1** x

 Available Tests

Name: Rail:

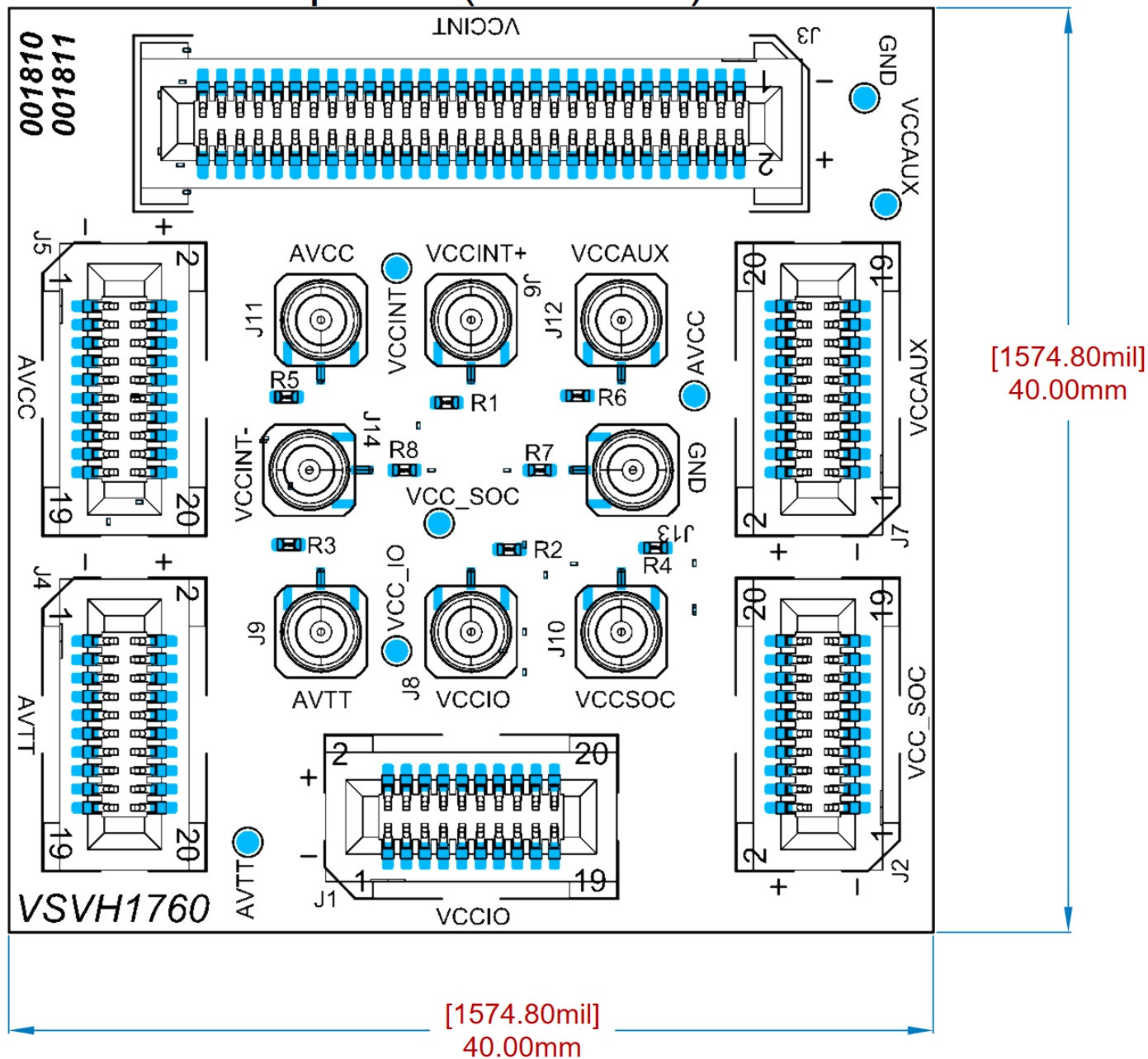
- Transient Test**
Transient load step with adjustable rise times, current, and pulse width.
- Pulse Train**
Repeating load steps with a configurable frequency and duty cycle.
- Impedance (Z)**
Large signal output impedance with adjustable current amplitude and offset.
- DC Load**
DC Load with timer.
- Delay**
Timed delay.

Transient test

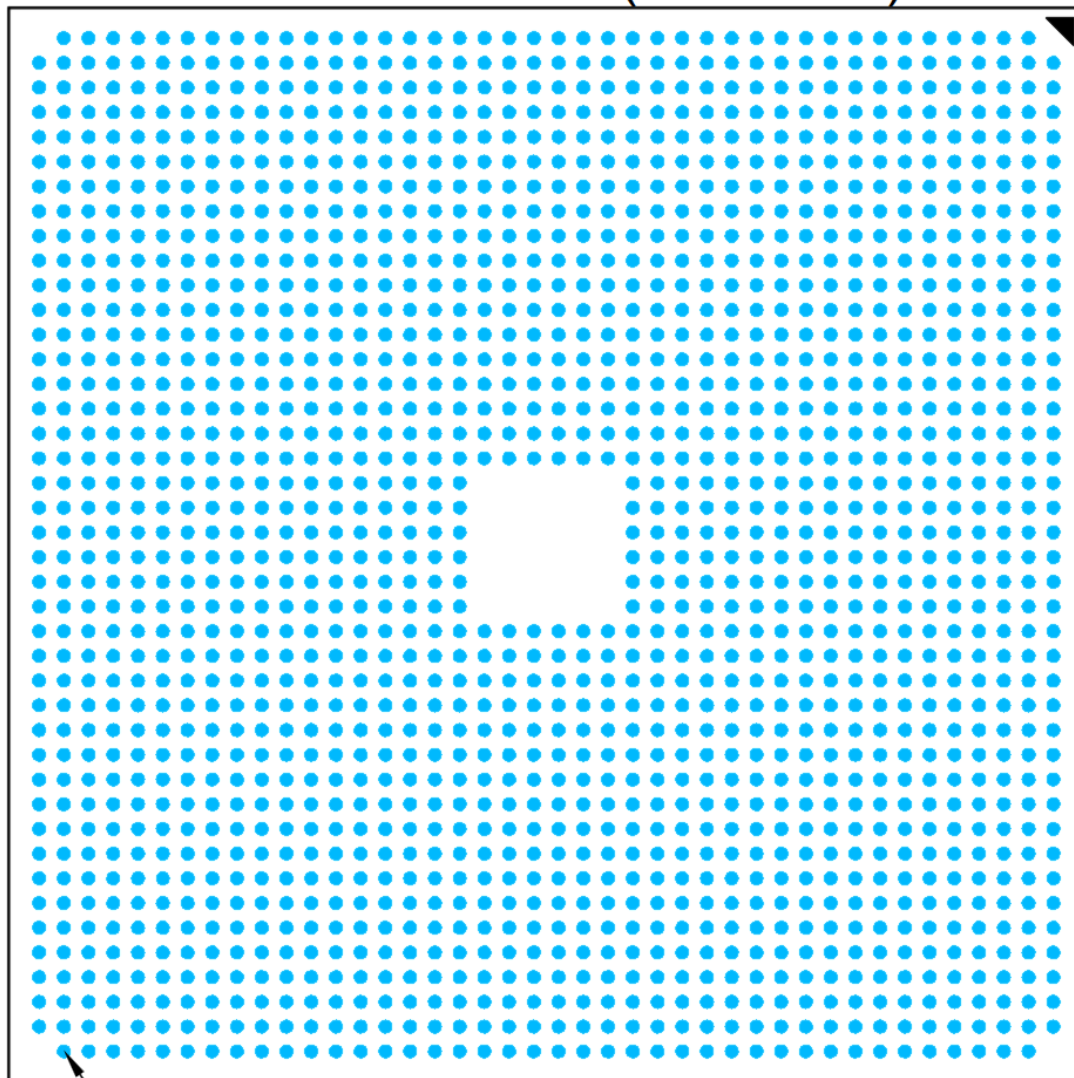


Mechanical Specs

View from Top side (Scale 3:1)



View from Bottom side (Scale 3:1)



Pin 1 I.D.

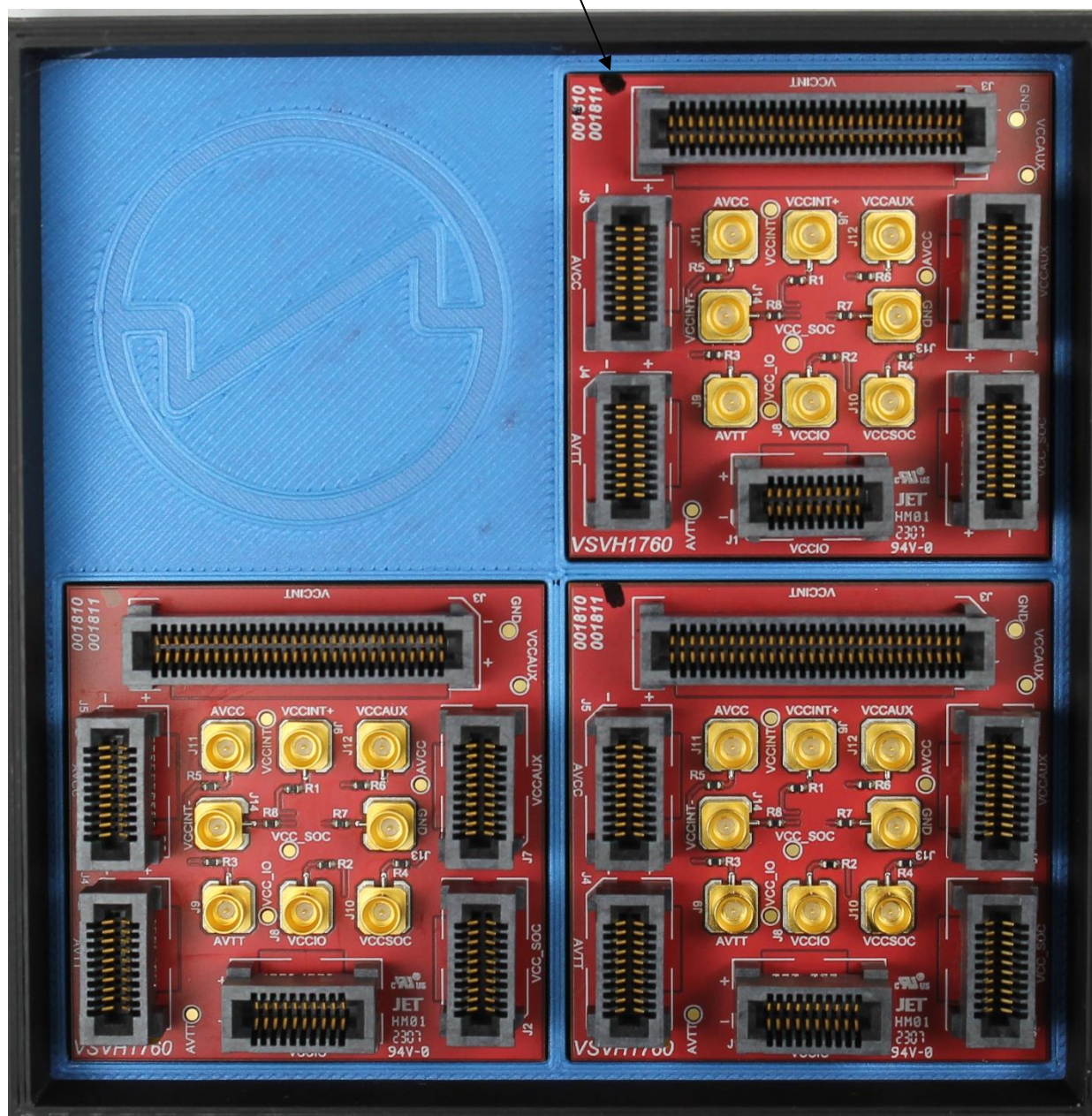
0.92mm BGA Pitch

Sn96.5-Ag3.0-Cu0.5 0.6mm balls

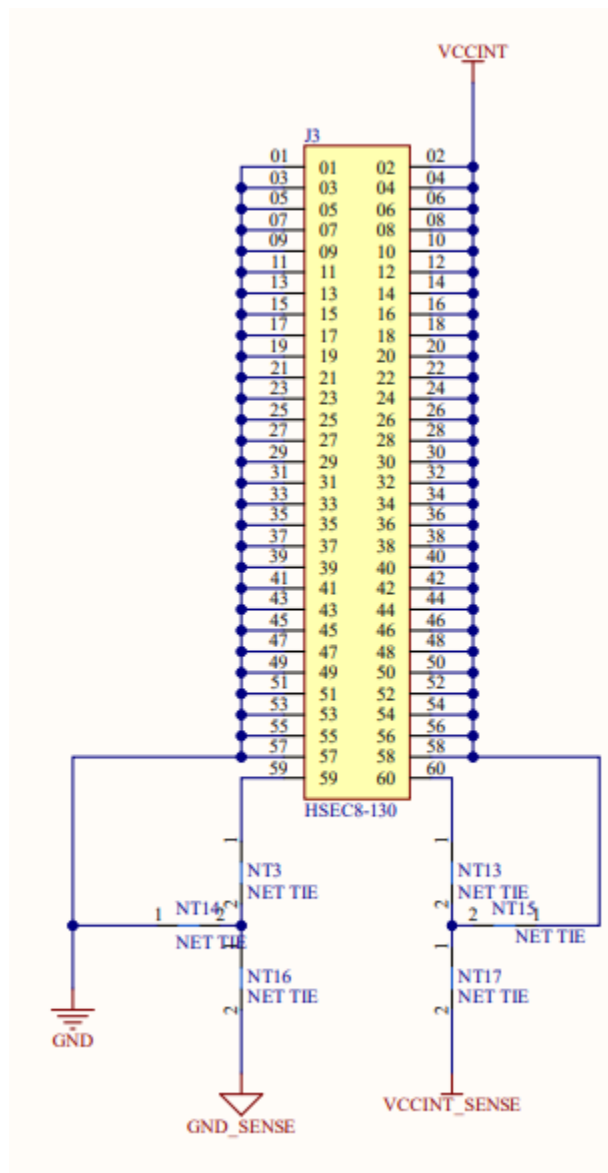
Packing Tray Specs

40x40mm package will have a 92x92x15mm tray

A1 marked - top left corner

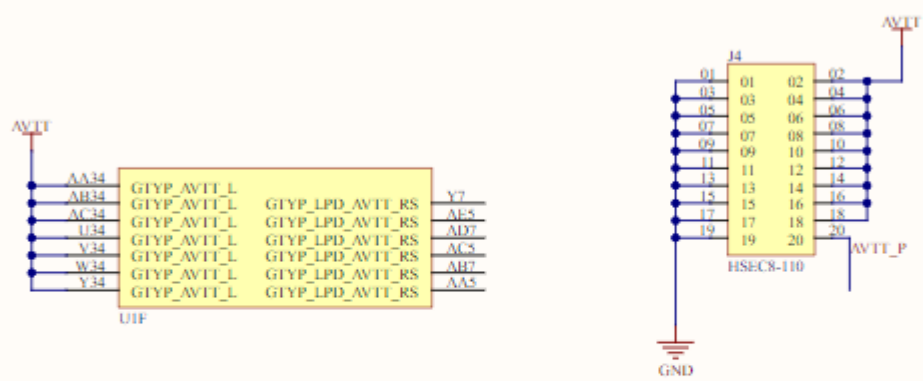




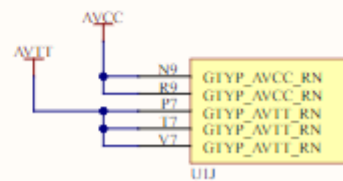


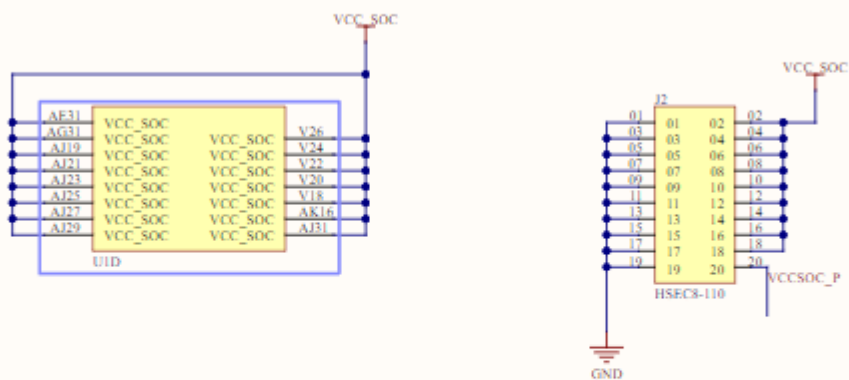


VCC_IO

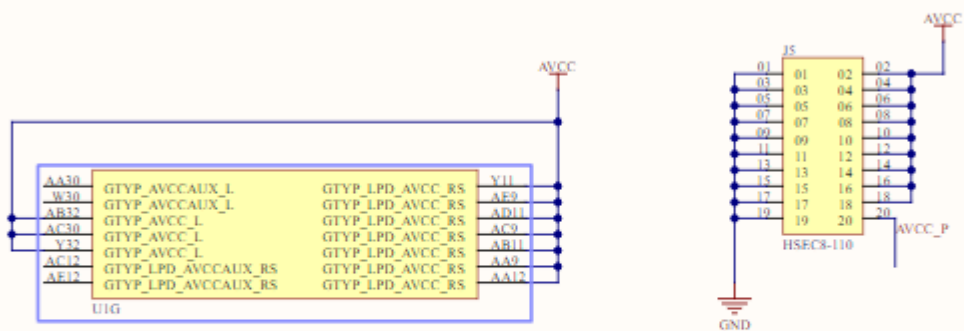


AVTT





VCC_SOC

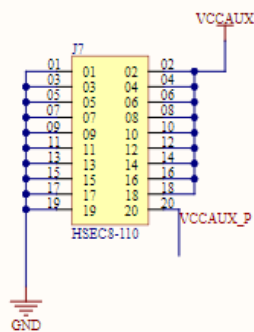
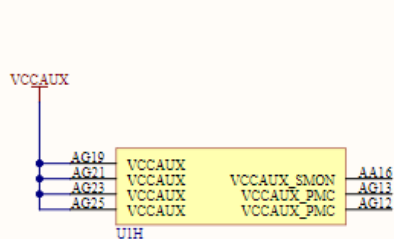


AVCC

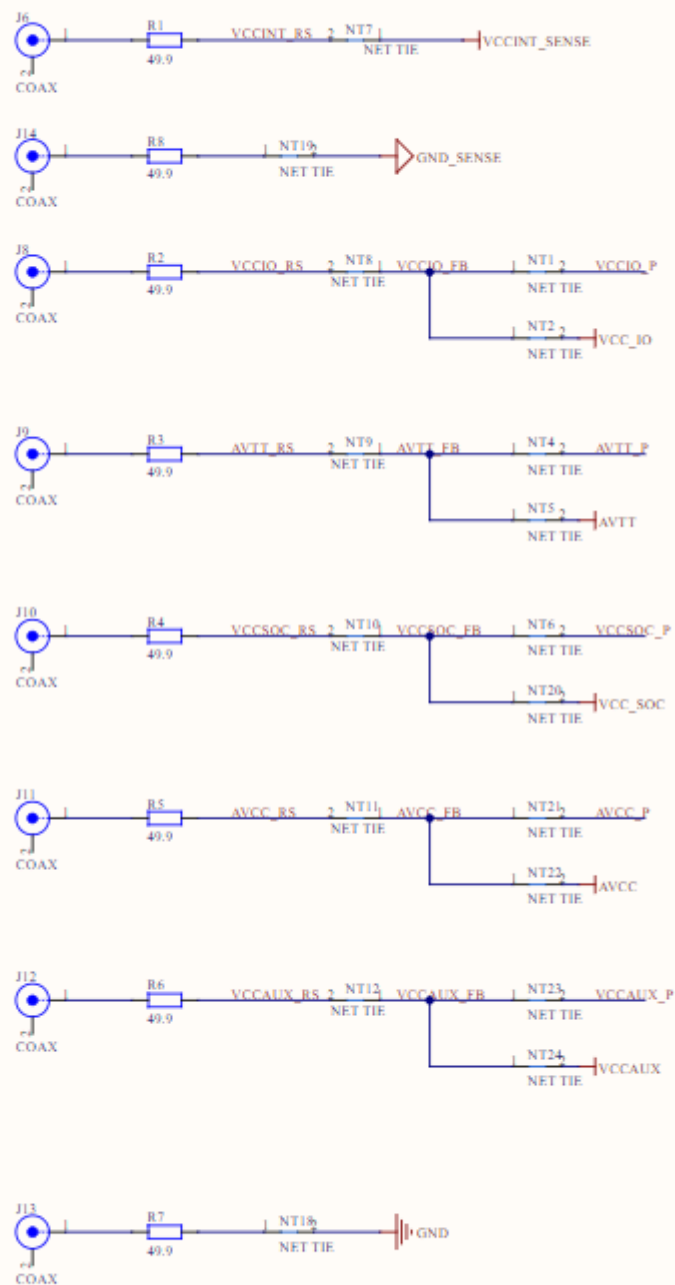
AD16	RSVDGND	VCC_PSFP	AI14
AD17	RSVDGND	VCC_PSFP	AI15
AH14	VCC_BATT	VCC_PSLP	AH17
AB14	VCC_CPMS	VCC_PSLP	AJ16
AD14	VCC_CPMS	VCC_PSLP	AJ17
AE14	VCC_CPMS	VCC_RAM	AE26
Y14	VCC_CPMS	VCC_RAM	AE28
AH12	VCC_FUSE	VCC_RAM	Y26
AH15	VCC_PMC	VN_500	AC17
AJ13	VCC_PMC	VP_500	AB16
AJ14	VCC_PMC	VREFN_500	AB17
AK15	VCC_PSFP	VREFP_500	AC18

UIH

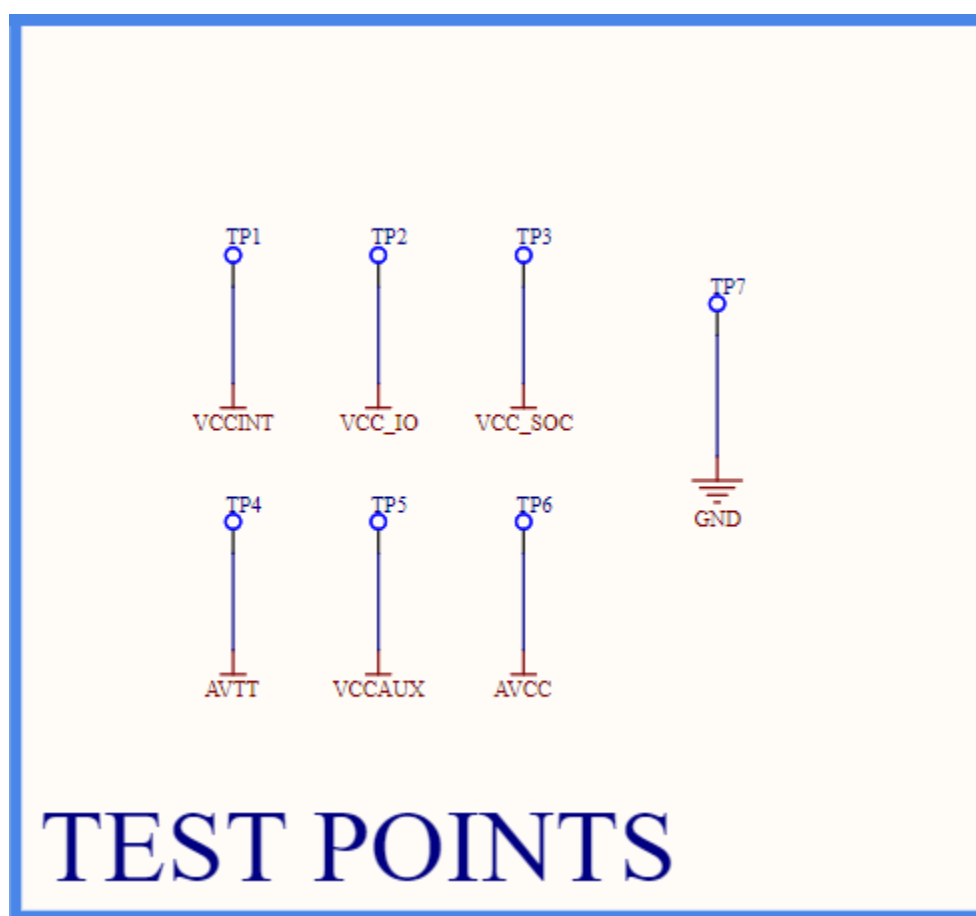
VCC MISC

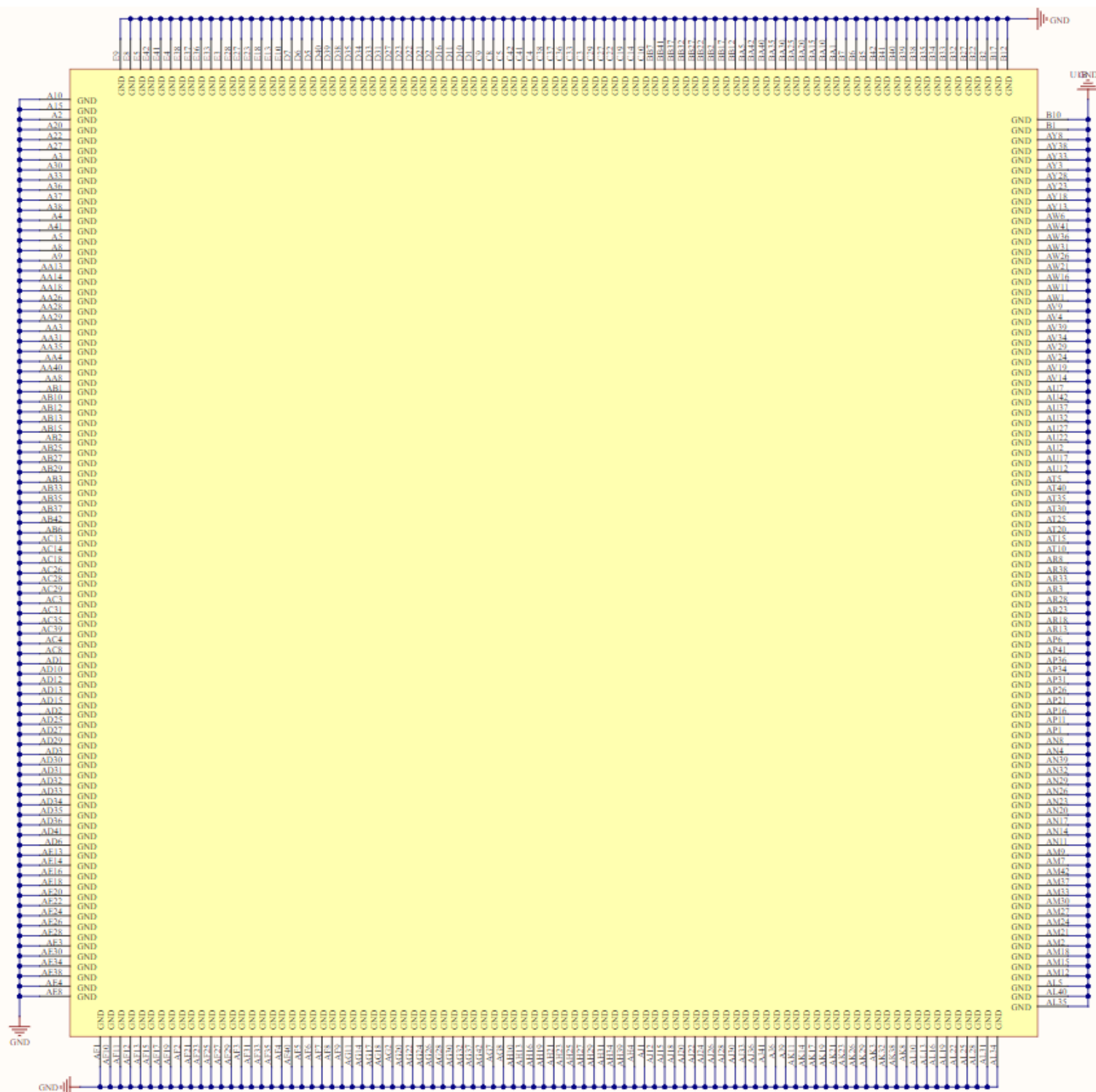


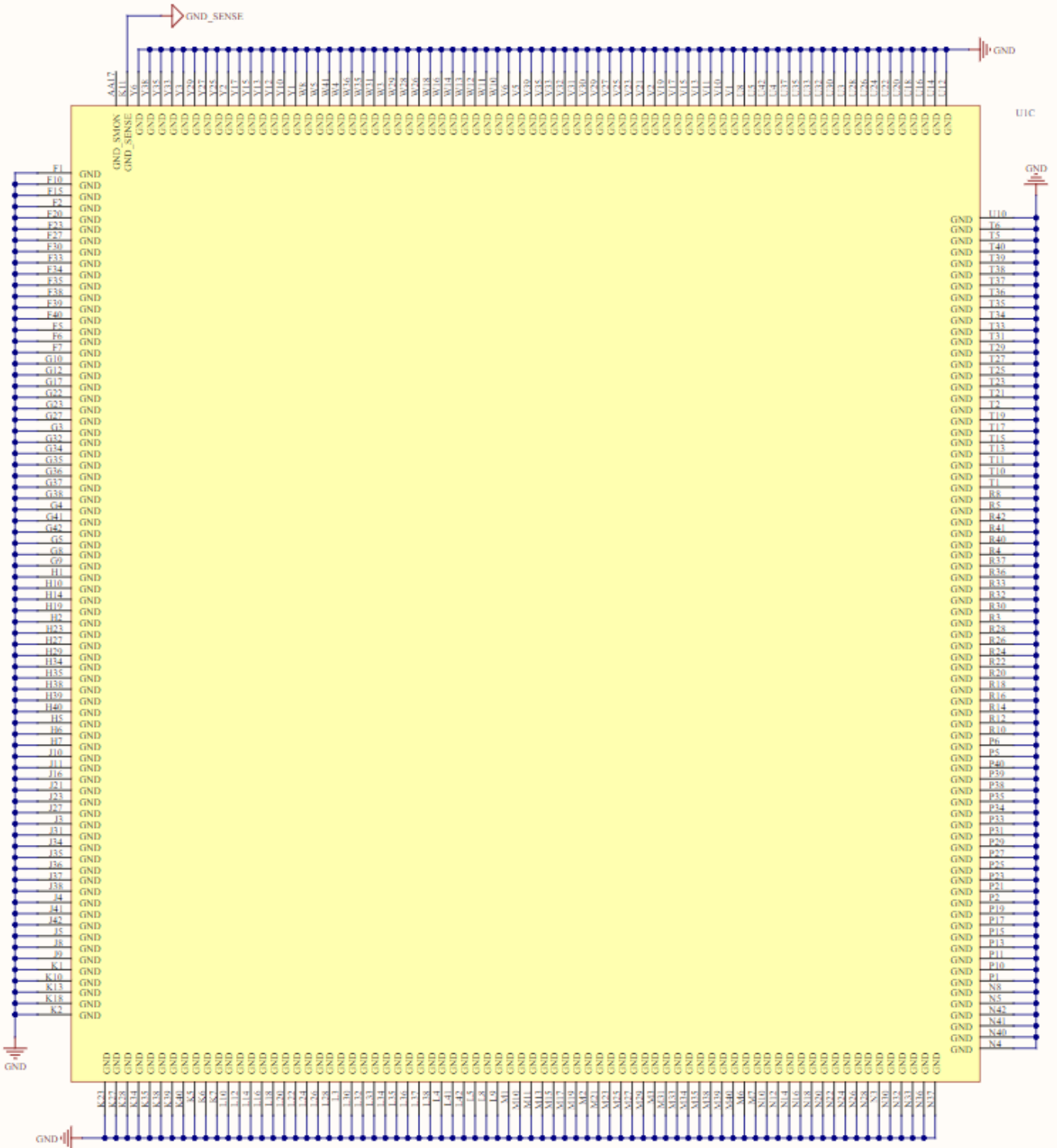
VCCAUX



COAX SMP







Availability

Xilinx part number	ProGrAnalog part number
VC2602-VSVH1760	PA-KIT-VC2602-VSVH1760
VC2802-VSVH1760	PA-KIT-VC2802-VSVH1760
VE2602-VSVH1760	PA-KIT-VE2602-VSVH1760
VE2802-VSVH1760	PA-KIT-VE2802-VSVH1760

<https://loadslammer.com>

Questions:

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