

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: Test - 1
Rail: None

Transient Test
Transient load step with adjustable rise times, current, and pulse width.

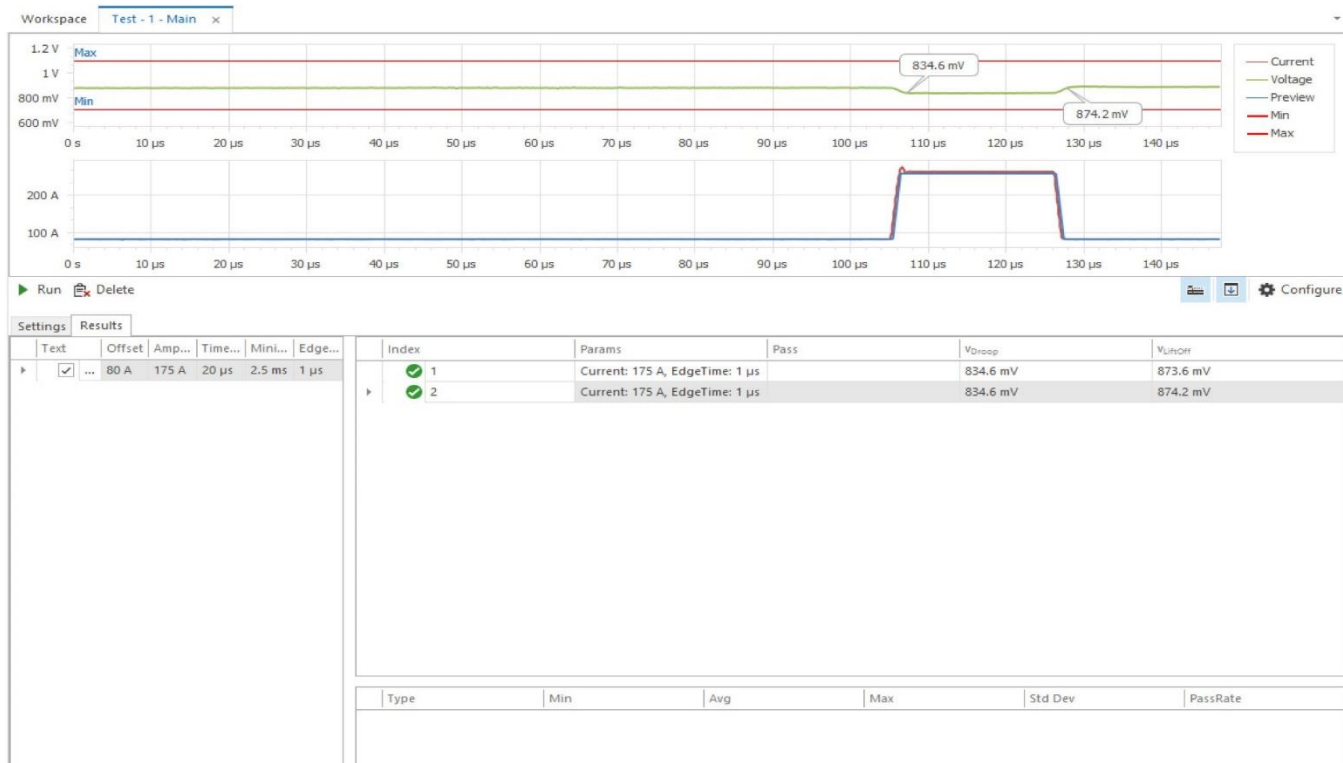
Pulse Train
Repeating load steps with a configurable frequency and duty cycle.

Impedance (Z)
Large signal output impedance with adjustable current amplitude and offset.

DC Load
DC Load with timer.

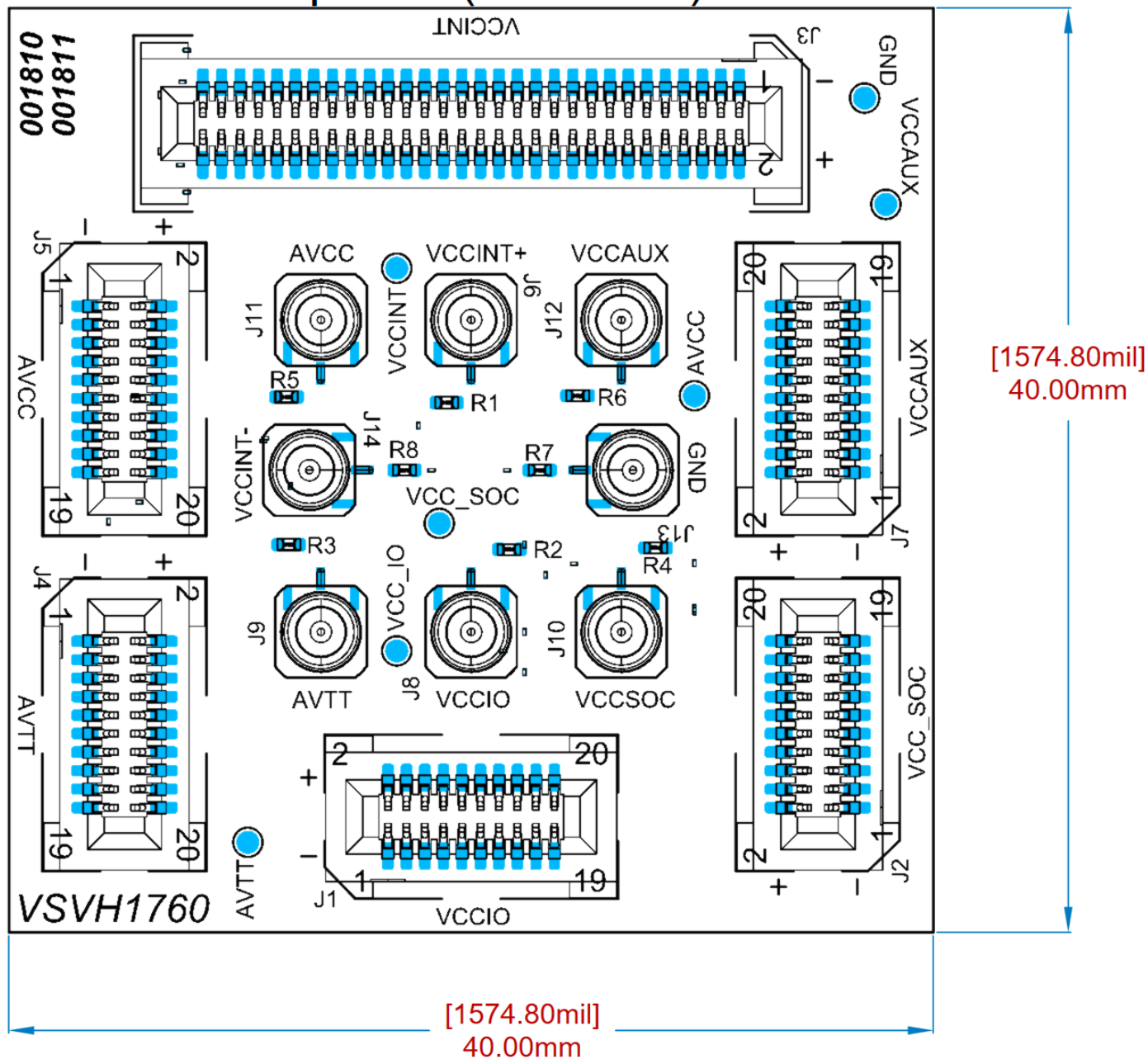
Delay
Timed delay.

Transient test

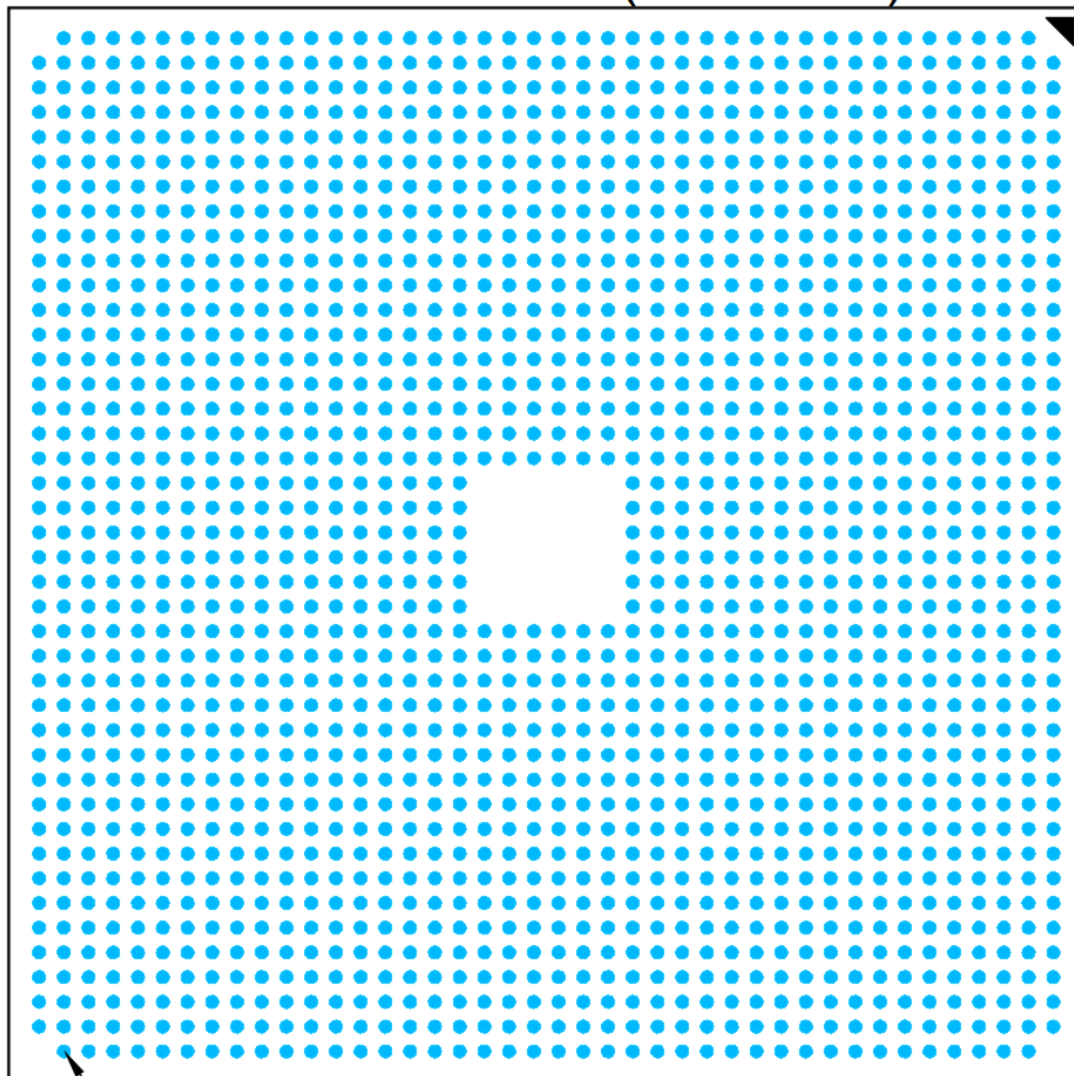


Mechanical Specs

View from Top side (Scale 3:1)



View from Bottom side (Scale 3:1)



Pin 1 I.D.

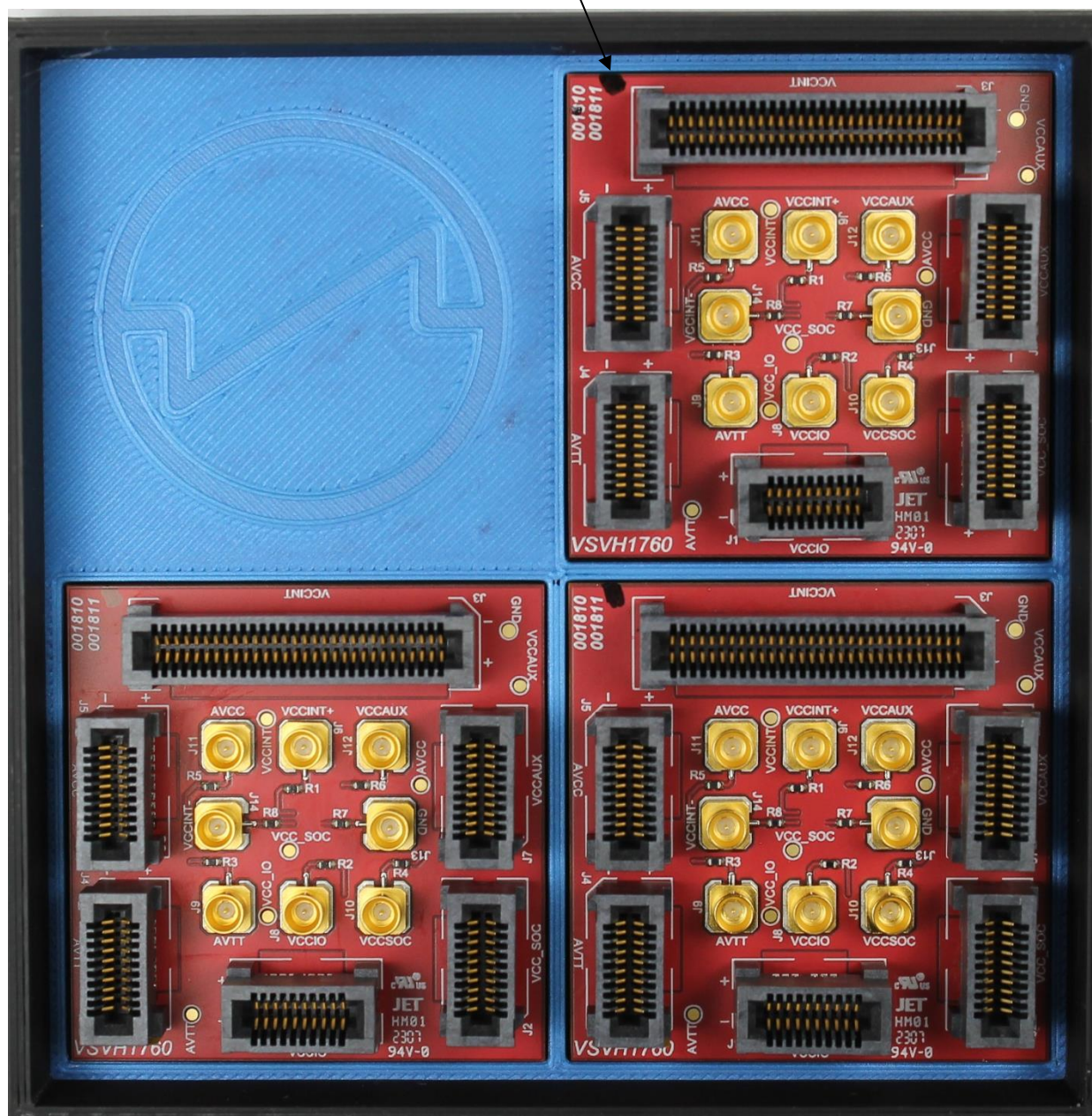
0.92mm BGA Pitch

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

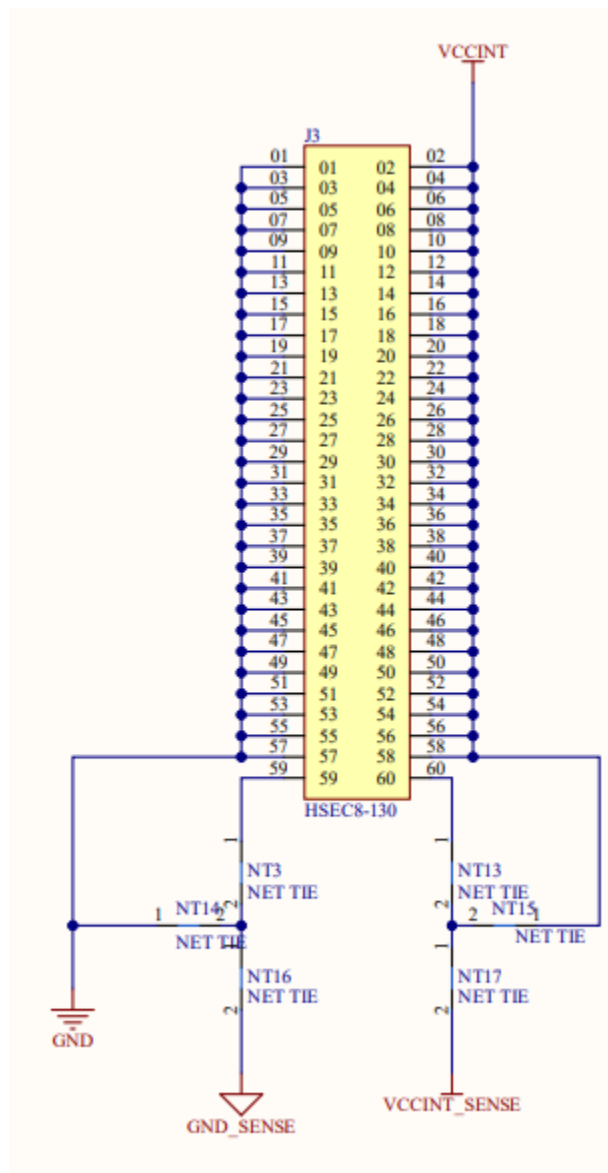
Packing Tray Specs

40x40mm package will have a 92x92x15mm tray

A1 marked - top left corner

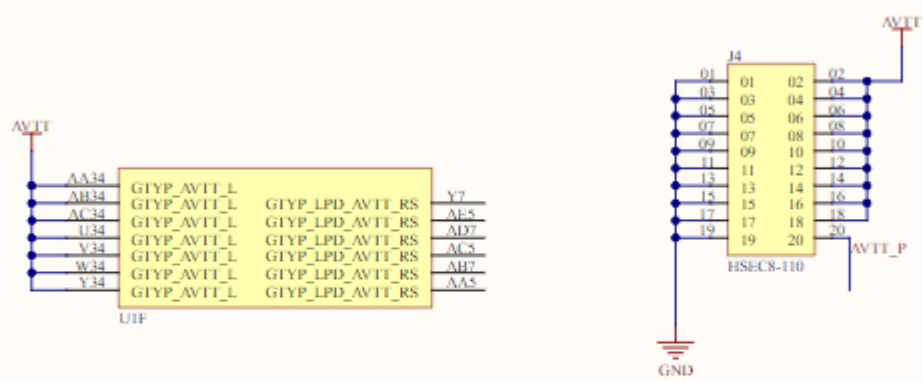




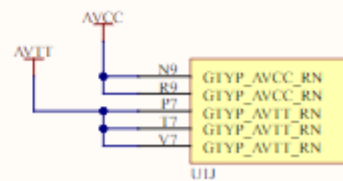


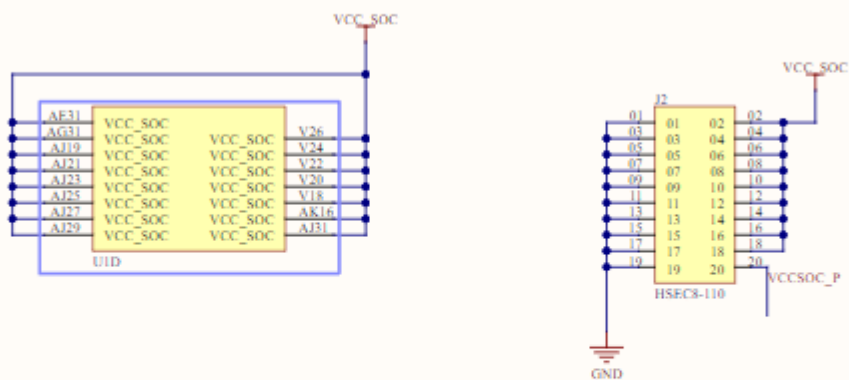


VCC_IO

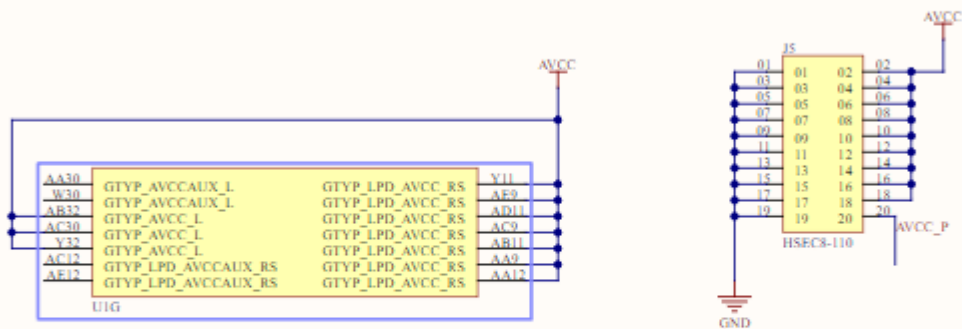


AVTT





VCC_SOC

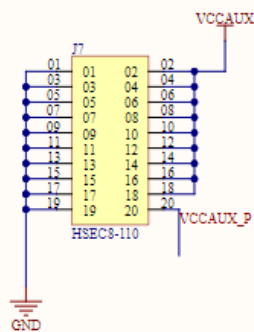
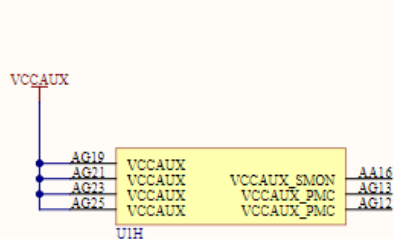


AVCC

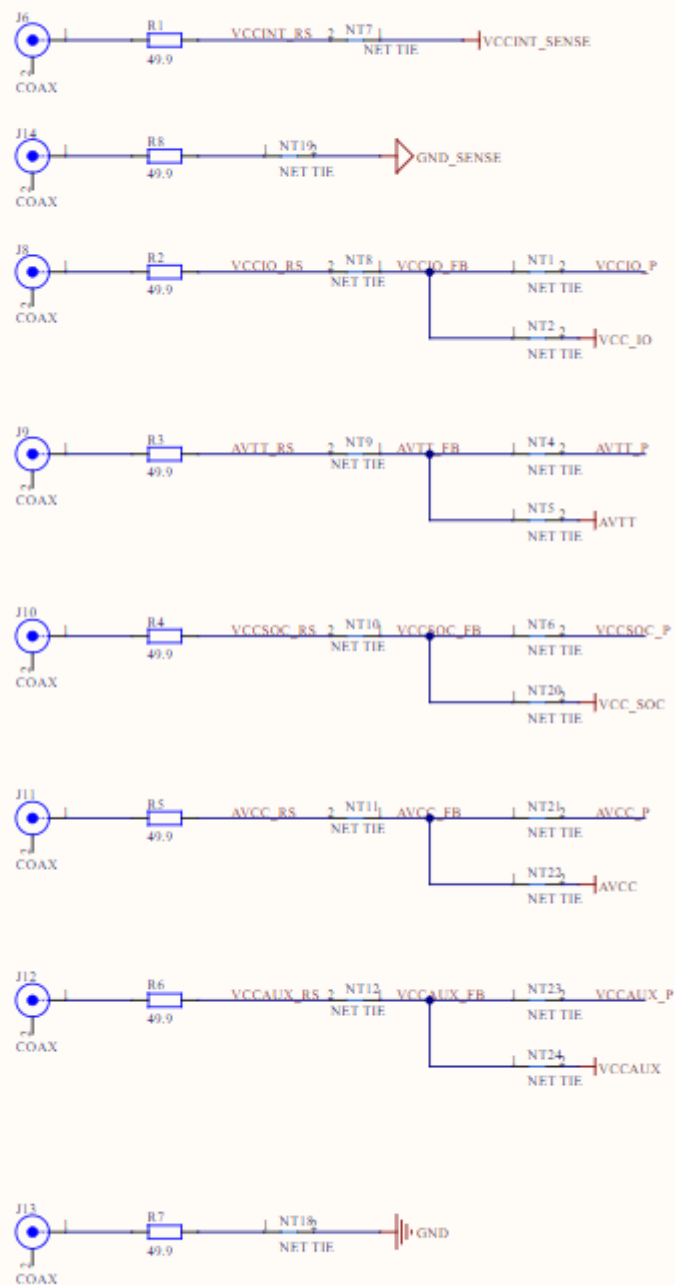
AD16	RSVDGND	VCC_PSFP	AI14
AD17	RSVDGND	VCC_PSFP	AI15
AH14	VCC_BATT	VCC_PSLP	AH17
AB14	VCC_CPMS	VCC_PSLP	AJ16
AD14	VCC_CPMS	VCC_PSLP	AJ17
AE14	VCC_CPMS	VCC_RAM	AE26
Y14	VCC_CPMS	VCC_RAM	AE28
AH12	VCC_FUSE	VCC_RAM	Y26
AH15	VCC_PMC	VN_500	AC17
AJ13	VCC_PMC	VP_500	AB16
AJ14	VCC_PMC	VREFN_500	AB17
AK15	VCC_PSFP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

UIH

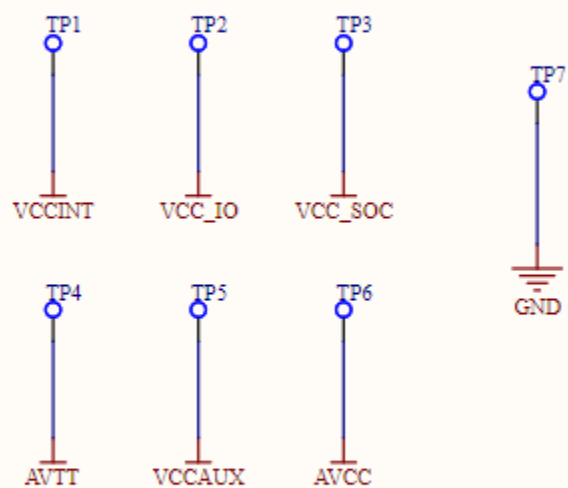
VCC MISC



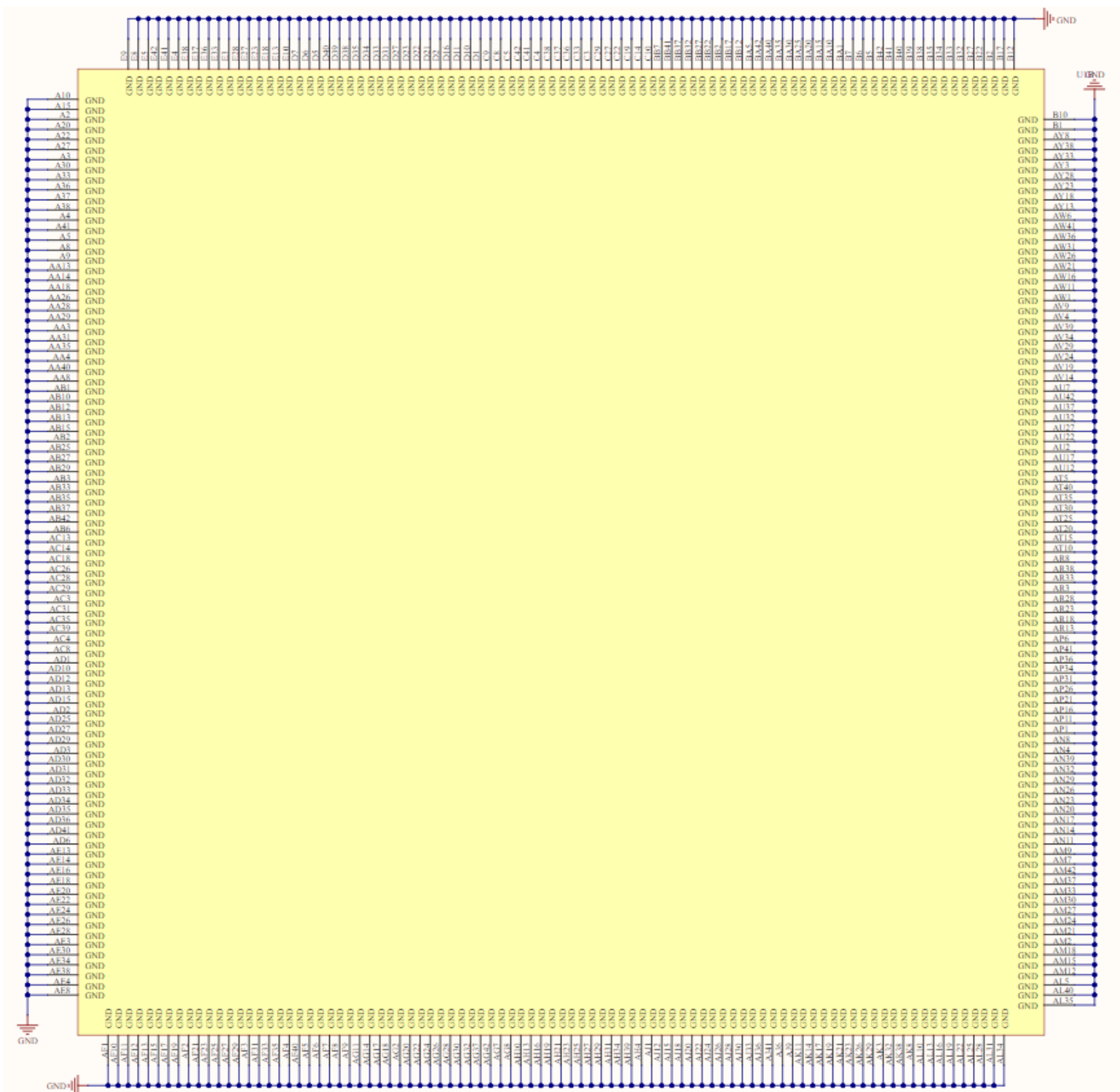
VCCAUX



COAX SMP



TEST POINTS





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:

support@progranalog.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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