

# APPLICATION NOTE

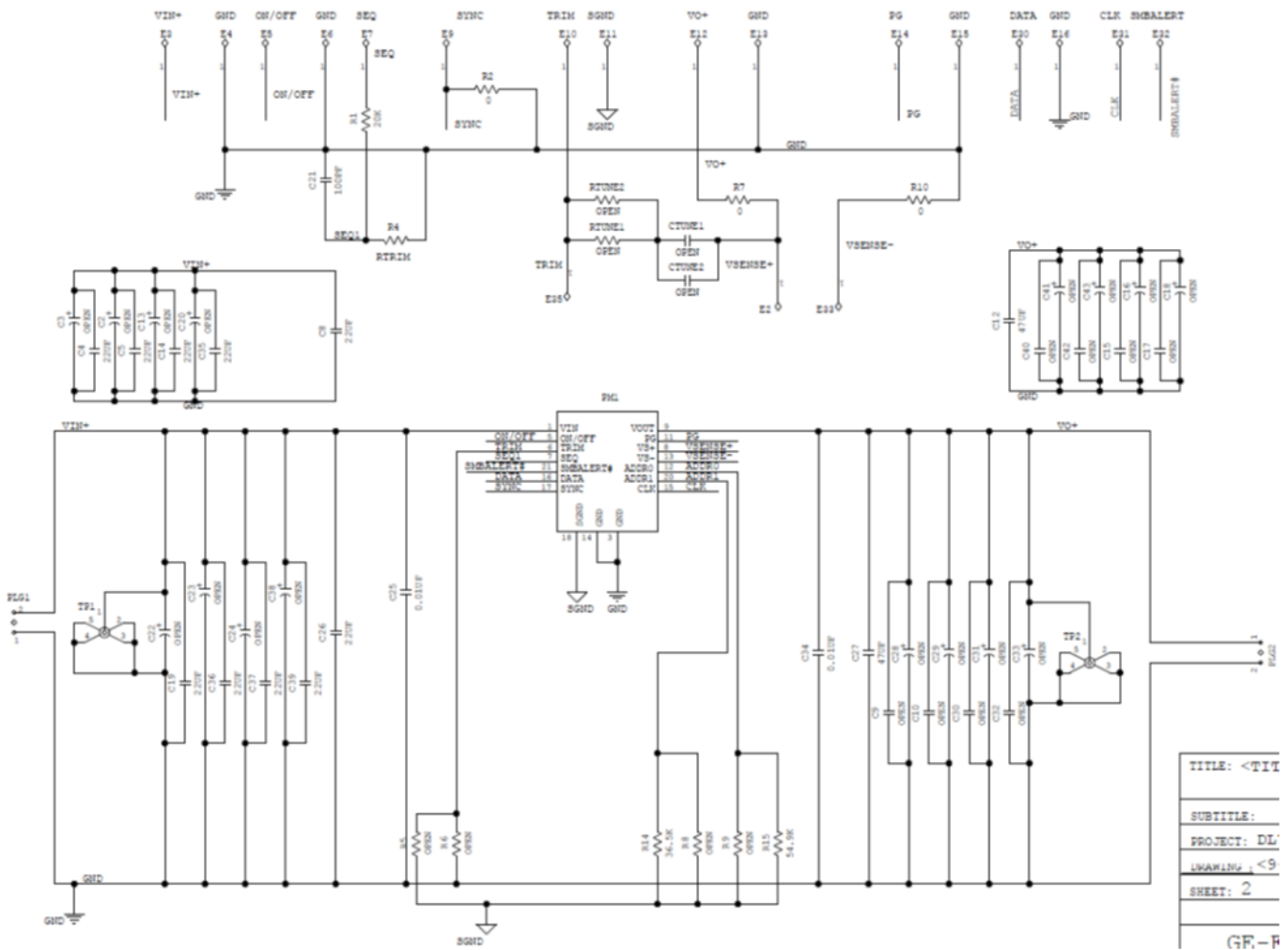
## SlimLynx™ Series Evaluation Board Documentation

The SlimLynx™ series evaluation board (EVAL\_PNDT012A0X3-SRZ) Boards come with an assembled module and test components

### Schematics

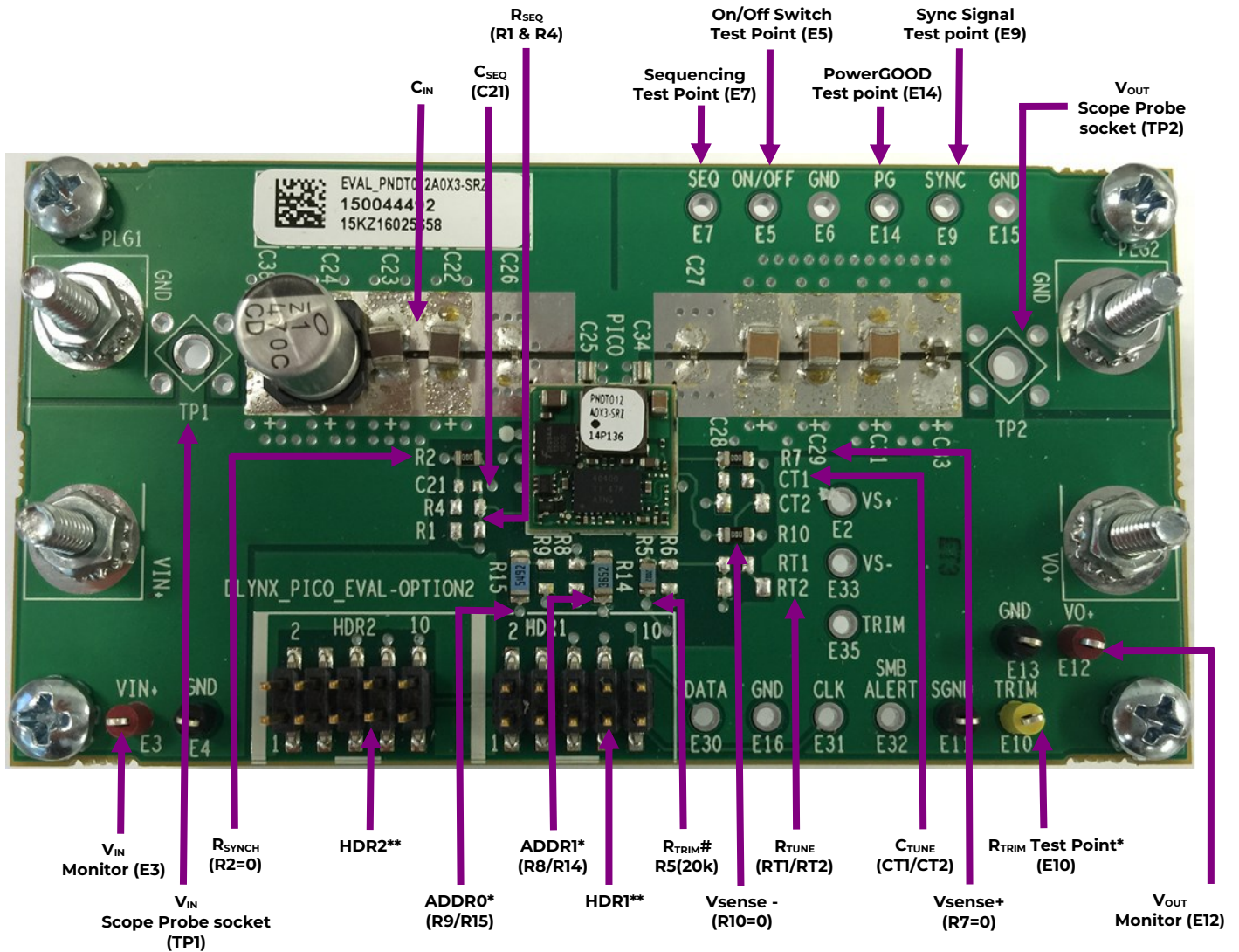
Component values are for reference only; refer to the data sheet for appropriate values and pictures in this document for preinstalled component

### PICO SLIMLYNX MODULES (DLYNX\_PICO\_EVAL-OPTION2)



Pre-Installed components for the SlimLynx™ include input filtering [ $C_{25}$  (0.047uF,16V),  $C_{22}$ (22uF,16V),  $C_{23}$ (22uF,16V),  $C_{26}$  (0.1uF,16V),  $C_{38}$ (470uF,16V)], output filtering [ $C_{34}$ (0.047uF,16V),  $C_{27}$ (0.1uF,16V)  $C_{28}$ ,  $C_{29}$ ,  $C_{31}$  (47mF,6.3V),  $C_{33}$  (1uF,16V)],  $R_{SENSE}$  resistors,  $R_7$  &  $R_{10}$  = 0 Ohms, Trim  $R_5$ =20K, Address  $R_{15}$ =54.9K,  $R_{14}$ =36.5K and some test points.

## 10-Pin Ribbon Cable to USB Interface Adaptor or Second Eval Board



**Power and Analog Signal Interface for the PNDD012 Eval Board**

\*Module can be trimmed either by soldering a different fixed resistors @  $R_5$  or by attaching a potentiometer/resistor between test points E11 and E35.

\* The SlimLynx module can be assigned a specific address by connecting resistors ( $R_9/R_{15}$ ) from the ADDR0 pin to GND and resistors ( $R_8/R_{14}$ ) from the ADDR1 pin to GND. The evaluation board comes with preinstalled ADDR1 resistor  $R_{14}$ =36.5K and ADDR0 resistor,  $R_{15}$ =54.9K as an example. These values correspond to Octal digits "3 4" equivalent to HEX number "1C" (equivalent to 28 decimal). Please refer to the data sheet for additional details.

\*\* HDR1/HDR2 allow the unit on the Eval board to interface (via 10 pin Ribbon Cable) with another unit on a different Eval Board and/or to OmniOn "USB Interface Adapter" module in order for multiple modules to be controlled by the GUI. For further details, please refer to the OmniOn document, "Digital Power Insight™ User Manual".

## Notes:

**Note1:** The red wire on the ribbon cable should be aligned to Pin 1 (left side) of the HDR1 or HDR2 connectors.

**Note2:** Headers and Ribbon Cable Assembly details:

Part Description (HDR1 & HDR2): 10-Pin Dual Row Male Pin Header, SMT

e.g. FCI P/N: 95157-210 (Digi-Key P/N: 95157-210-ND) or Molex P/N: 0015910100

**Part Description:** IDC Ribbon Cable Assembly

e.g.: 3M P/N: M3DDA-1018J (Digi-Key P/N: M3DDA-1018J-ND) or Molex P/N: 111062-022

## Change History (excludes grammar & clarifications)

Revision	Date	Description of the change
1.0	12/09/2022	Updated as per ABB template
1.1	11/09/2023	Updated as per OmniOn template

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