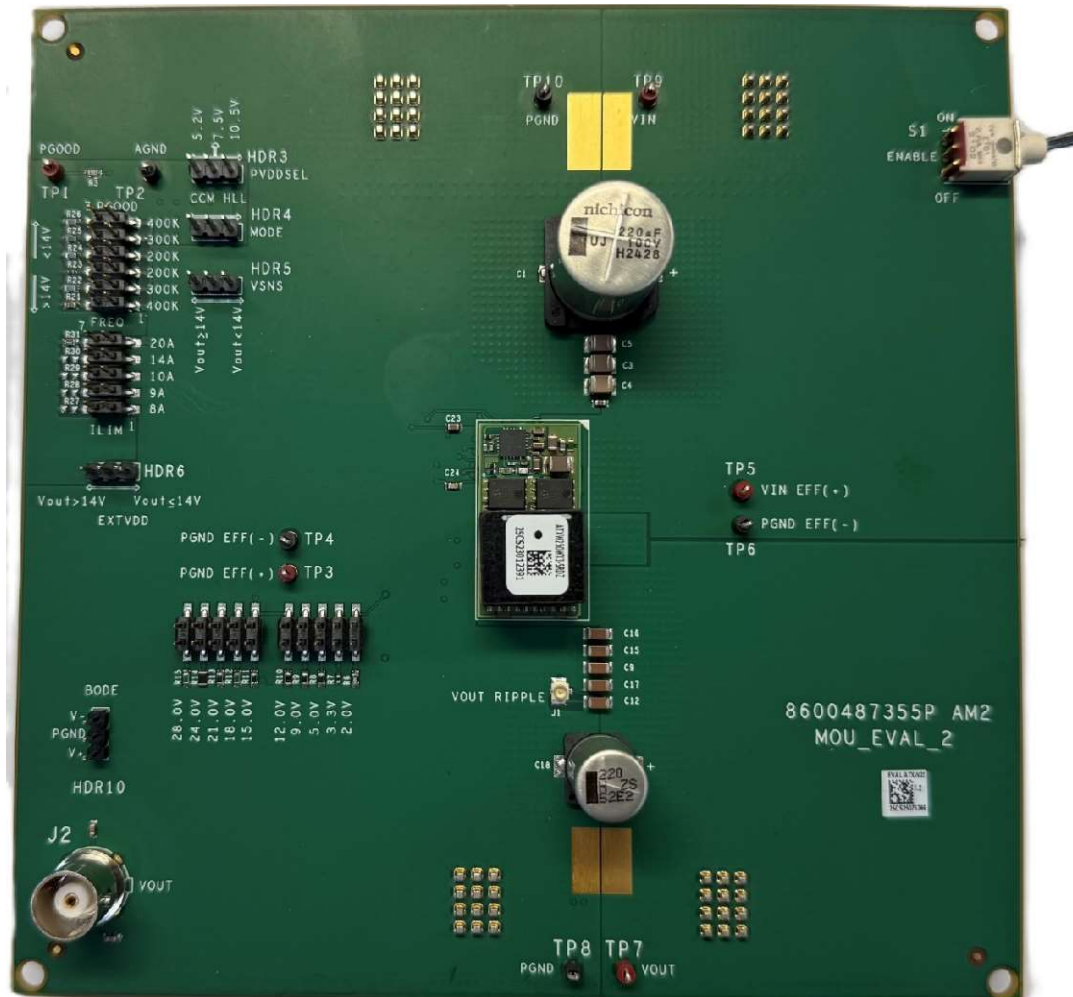


ATXW150/250: Evaluation Board Guide – Single Module

5Vdc – 59Vdc input; 2Vdc to 30Vdc output; 15A to 5A Scaled output, 150W Max

5Vdc – 59Vdc input; 2Vdc to 30Vdc output; 20A to 8A Scaled output, 250W Max



ATXW150/250: Evaluation Board Guide – Single Module

Table of Contents

Contents

1. Description 3

2. Schematic 5

3. Evaluation Board Sections 8

3.1.1 Input Connections 8

3.1.2 Output Connections 9

3.1.3 Control Connections 10

4. Summary of all Test Connections 11

5. Ordering Information 13

OmniOn Power Inc. 15

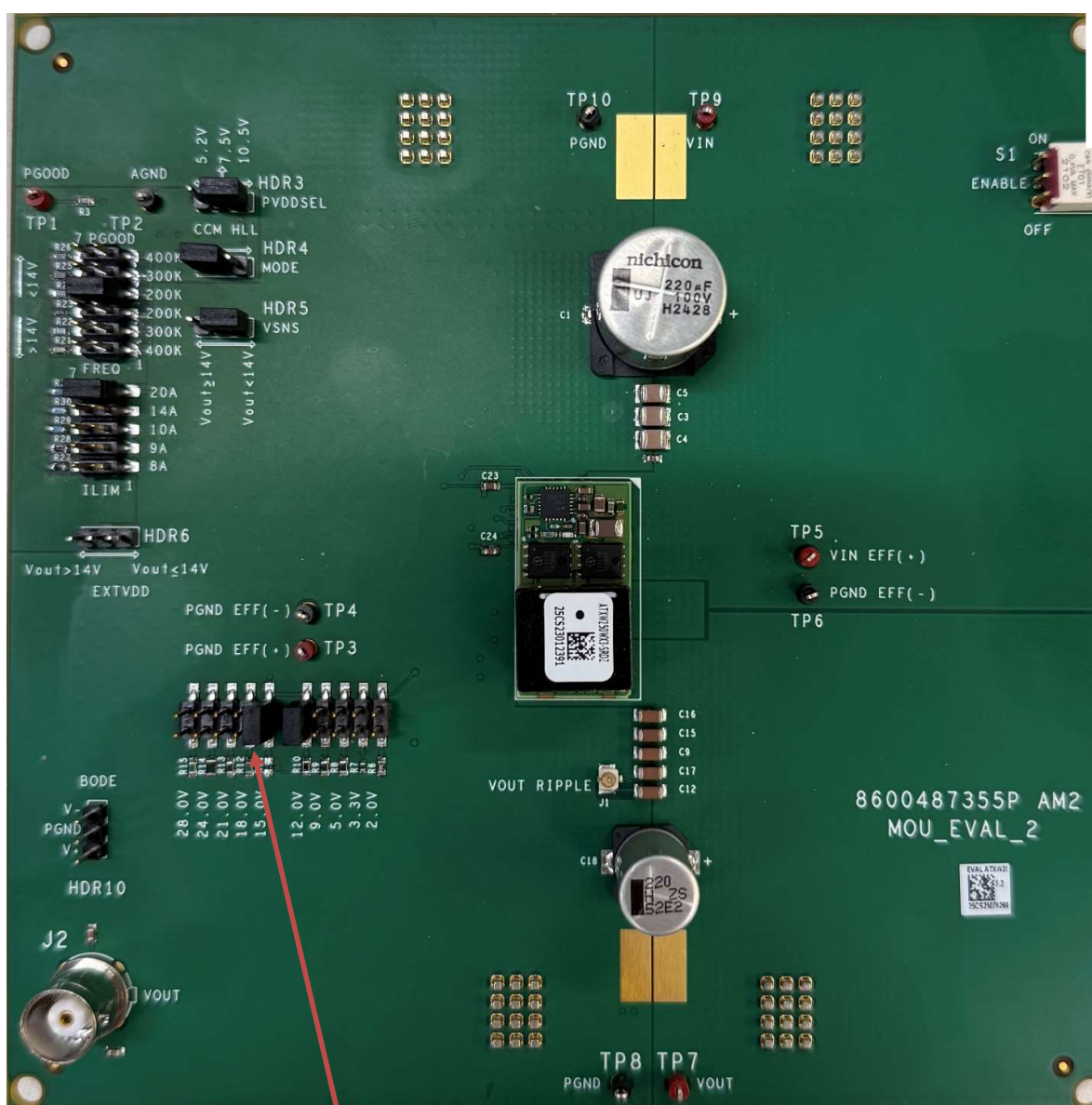
ATXW150/250: Evaluation Board Guide – Single Module

1. Description

The OmniOn Power 5-59V ProLynx2 series of power modules are non-isolated dc-dc converters that can deliver up to 15/20A of output current. These modules operate over an ultra wide range of input voltage ($V_{IN} = 5Vdc - 59Vdc$) and provide a precisely regulated output voltage from 2Vdc to 30Vdc, programmable via an external resistor.

The evaluation board is shown on the picture below. It comes pre-populated with required minimum of input and output capacitors. Numerous empty component place holders allow the board to be reconfigured to match a specific customer's application. Various test points facilitate the easy setup and monitoring of the module operation. The ATXW150 and ATXW250 share the same evaluation board and hence this is a common document for both modules

Top View of Evaluation Board with ATXW250 module

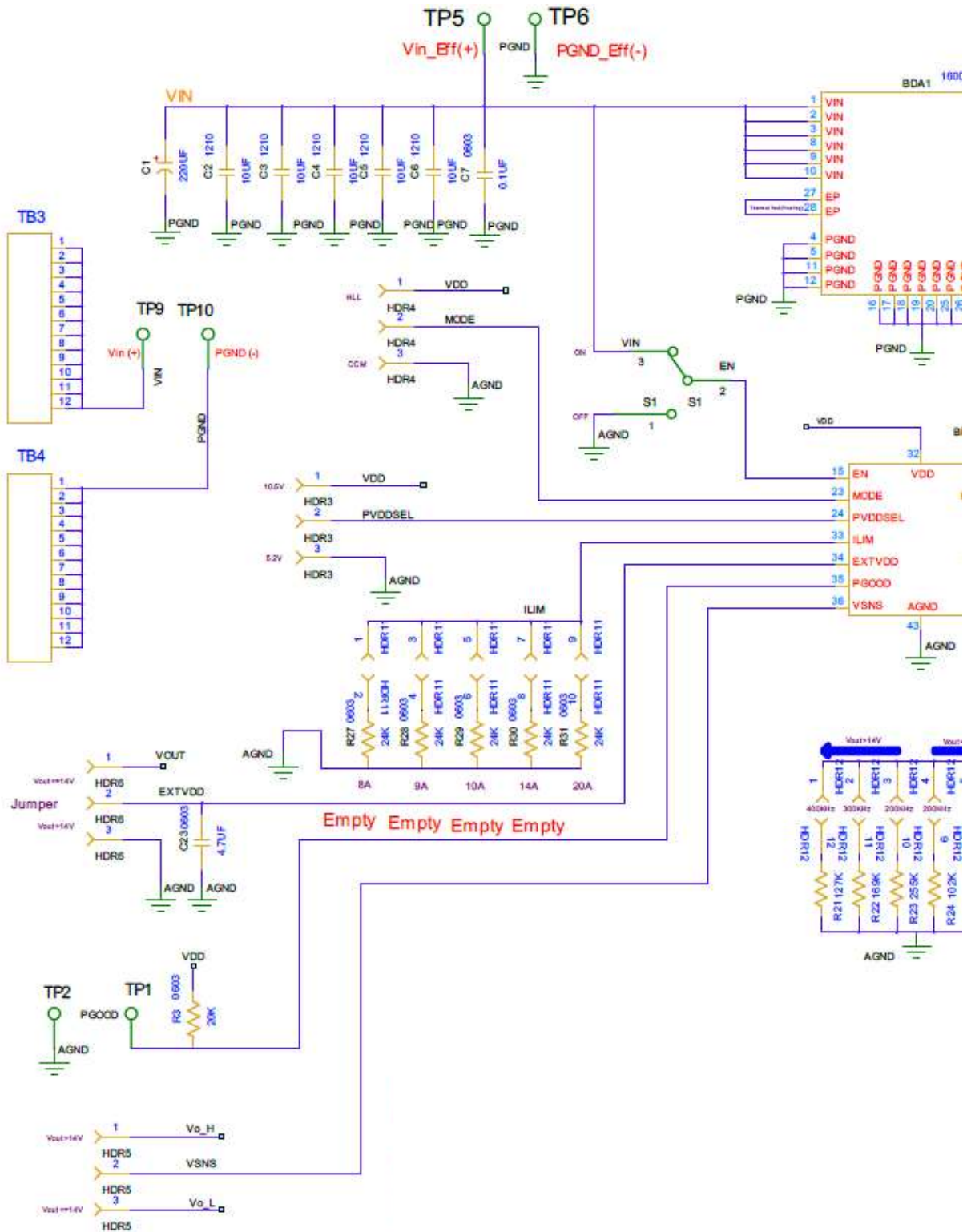


Do not move this specific jumper

2. Schematic

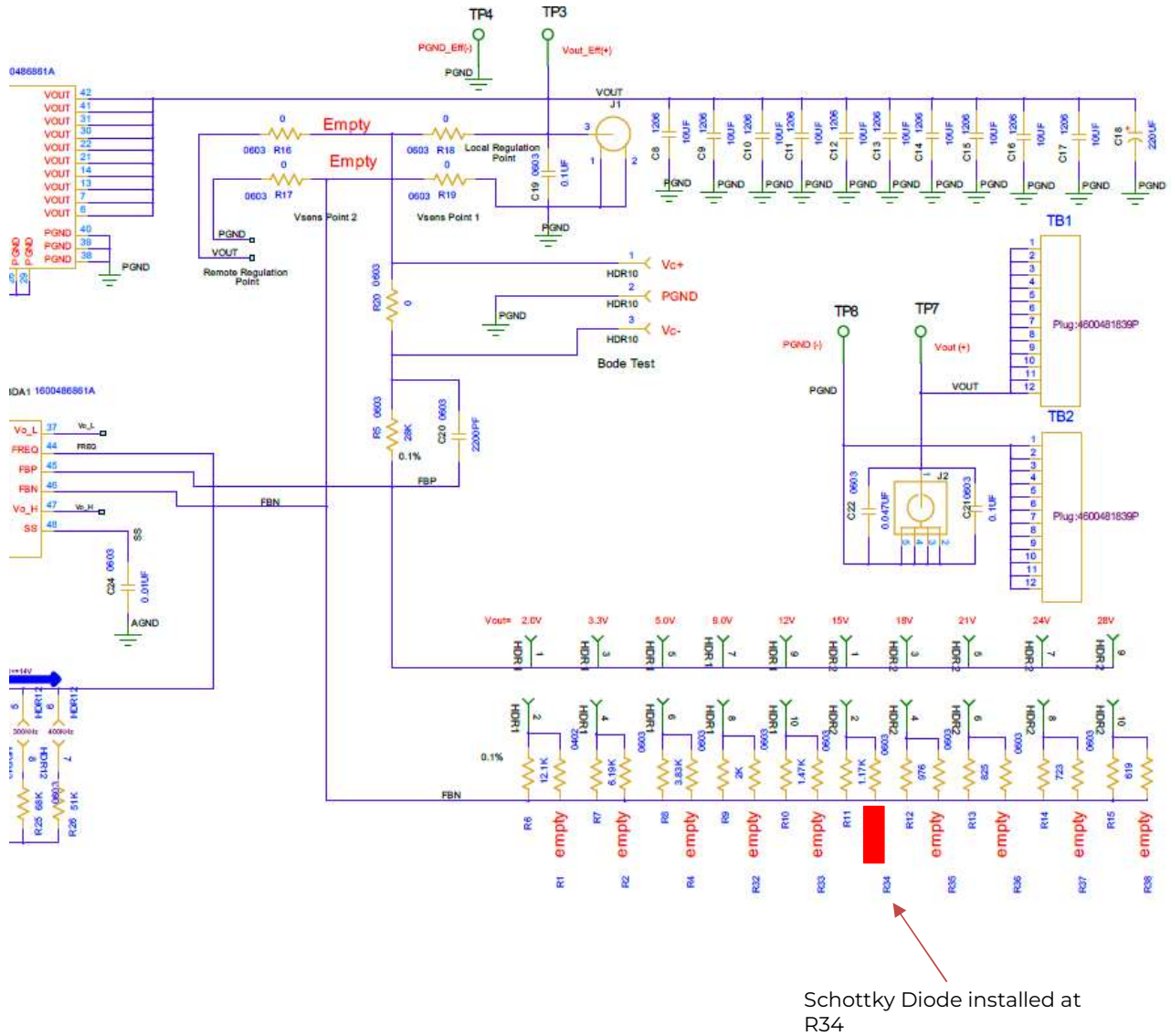
ATXW150/250: Evaluation Board Guide – Single Module

Input and partial control section.



ATXW150/250: Evaluation Board Guide – Single Module

Output and partial control section

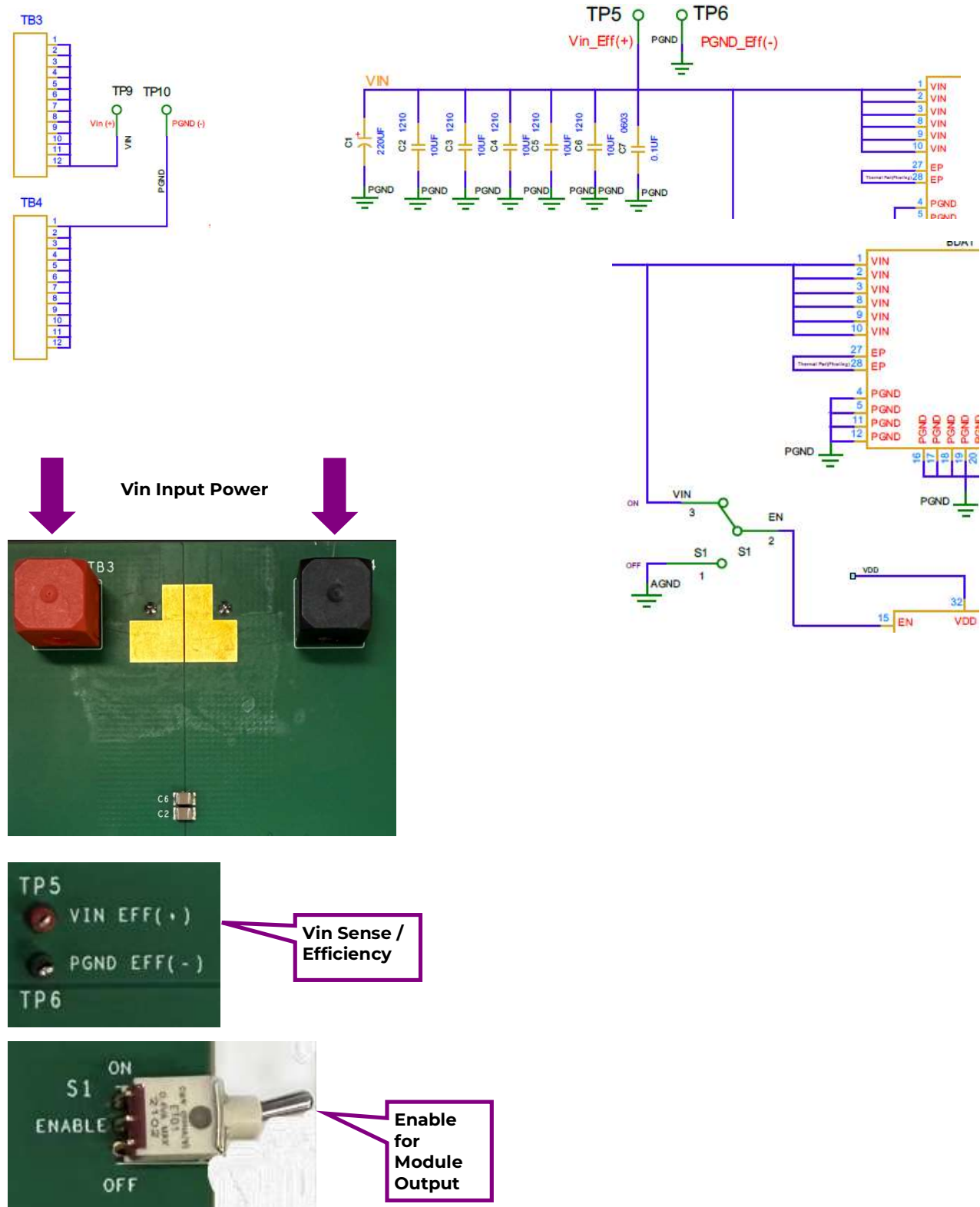


ATXW150/250: Evaluation Board Guide – Single Module

3. Evaluation Board Sections

The following pictures show the input connections and components external to the module.

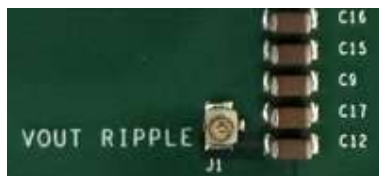
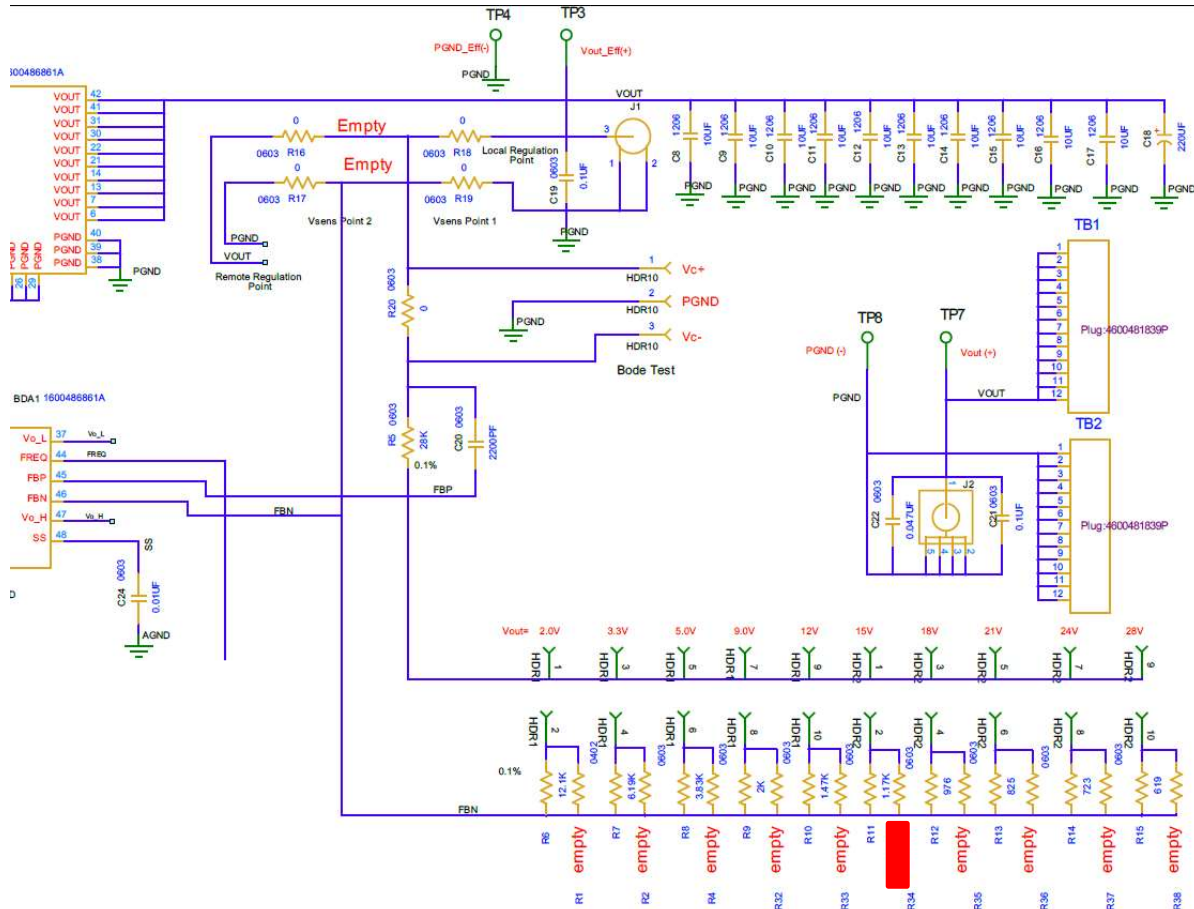
3.1.1 Input Connections



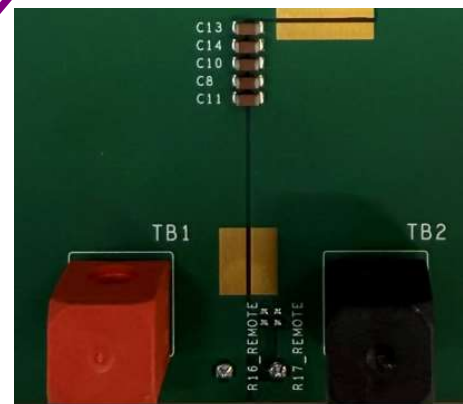
ATXW150/250: Evaluation Board Guide – Single Module

3.1.2 Output Connections

Schematics show max capacity. Evaluation Board will not be factory populated with all components



Vout Measurement ports

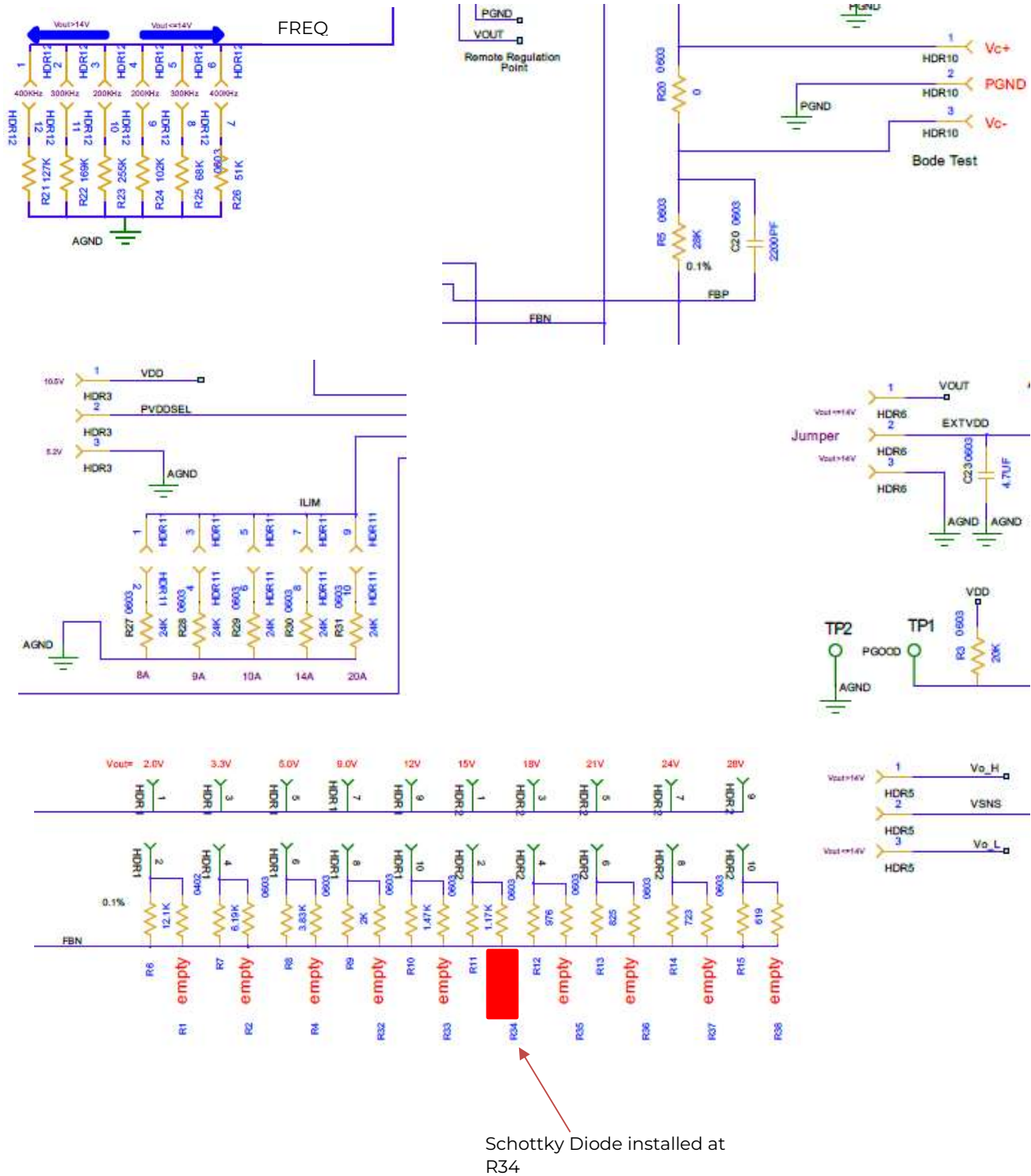


Vout Output Power

ATXW150/250: Evaluation Board Guide – Single Module

3.1.3 Control Connections

Schematic portions shows control and feedback loop test points and jumpers

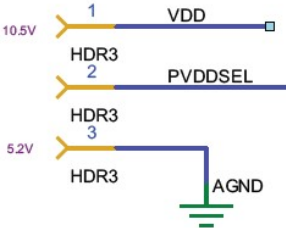
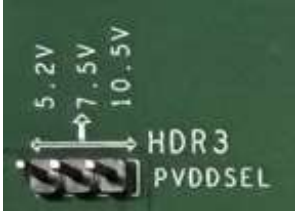
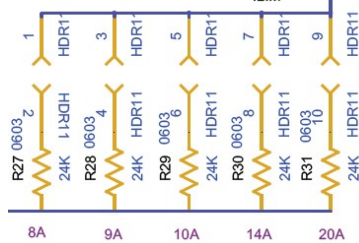
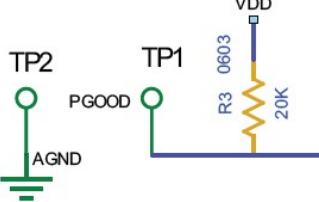
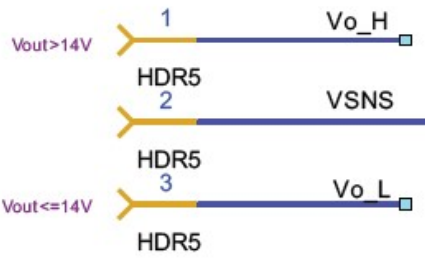
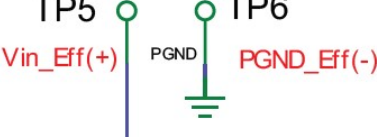
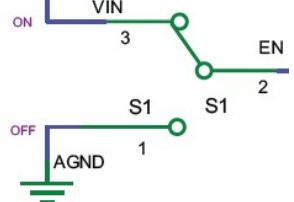


Schottky Diode installed at R34

ATXW150/250: Evaluation Board Guide – Single Module

4. Summary of all Test Connections

Control / Measurement Points and Options

ATXW150/250: Evaluation Board Guide – Single Module

Control / Measurement Points and Options

		Do not move this jumper across 15.0V

ATXW150/250: Evaluation Board Guide – Single Module**5. Ordering Information****Orderable Accessories**

Manufacturer Part Number	Ordering Code	Description
EVAL ATXW150	1600486916A	Evaluation Board with ATXW150 module
EVAL ATXW250	1600486917A	Evaluation Board with ATXW250 module

Orderable Third Party Accessories

Manufacturer Part Number	Manufacturer	Description
74640016	Würth Elektronik	Orderable from third party websites like Digi_Key, Mouser, etc. 

ATXW150/250: Evaluation Board Guide – Single Module

Revision History (excludes grammar and clarifications)

Revision	Date	Description of the change
1.0	1/20/2026	Common Manual for ATXW150 and ATXW250

ATXW150/250: Evaluation Board Guide – Single Module

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