**Document No. : 18-100211-01**

**Title : EVAL-RHP50000-CSLZ Test Procedure**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| REVISION HISTORY | | | | |
| **Revision** | **ECR #** | **Description of Change** | **Date** | **Author** |
| 0 |  | Initial Release | July 2025 | Jan Michael Gonzales |
|  |  |  |  |  |
|  |  |  |  |  |

|  |  |
| --- | --- |
| **Required Approvers** | |
| **Approver Roles** | **Approver Names** |
| Apps Engineer | Jan Michael Gonzales |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## Overview

The production testing for this evaluation board only requires basic electrical functionality check.

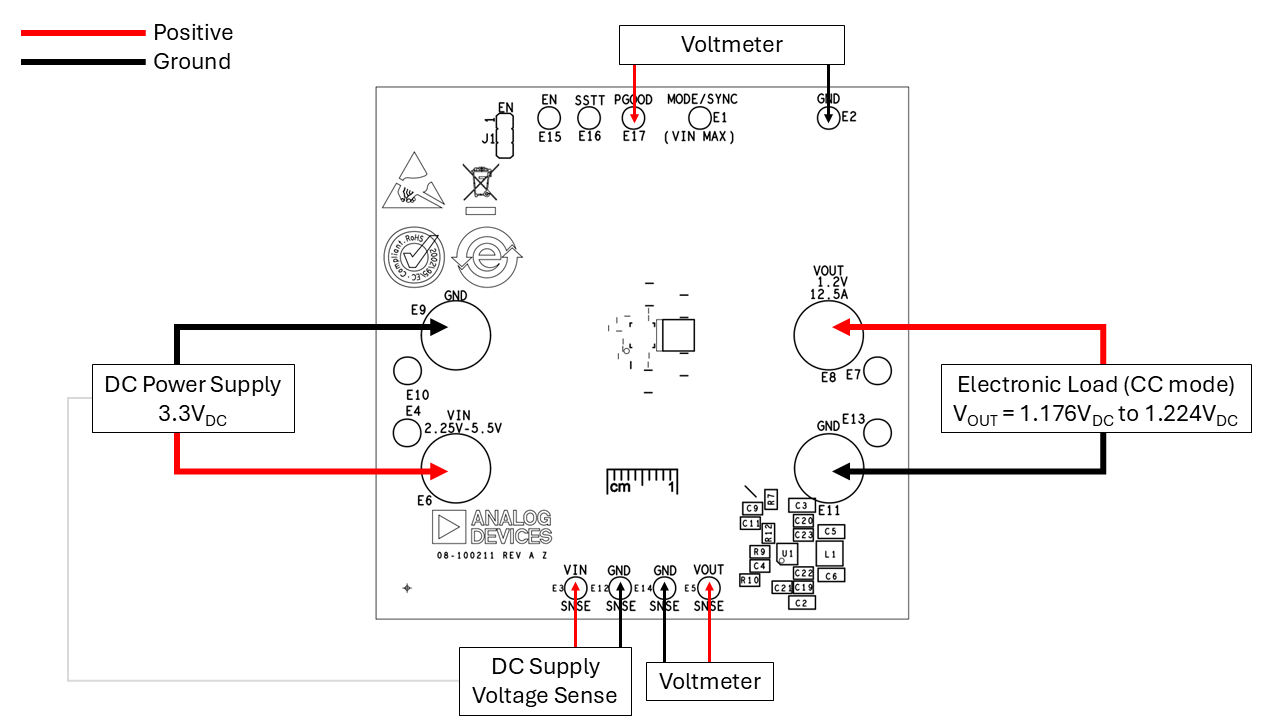
Required Hardware

Items needed for testing basic board functionality:

* EVAL-RHP50000-CSLZ Evaluation Board
* DC Power Supply (preferably with remote voltage sensing) with 7.0A or greater capability
* Electronic Load with 12.5A or greater capability
* Two (2) Voltmeters
* Appropriate connectors

Procedure

1. Configure hardware setup as illustrated below.



1. Connect DC Power Supply to input connectors E6 and E9, respectively. If voltage remote sensing is available, connect it to test points E3 and E12, respectively.
2. Connect Electronic Load to output connectors E8 and E11, respectively, and set mode to CC (constant current).
3. Connect voltmeter to test points E5 and E14, respectively, for output voltage measurement.
4. Connect another voltmeter to test points E2 and E17, respectively, for PGOOD voltage measurement.
5. Set DC Power Supply to 3.3 VDC and turn on.
6. Set Electronic Load to 1.0 A load.
7. Record output and PGOOD voltages from voltmeter.
8. Set Electronic Load to 12.5 A load.
9. Record output and PGOOD voltages from voltmeter.
10. Measured output voltage should be within regulation (range specified below) and measured PGOOD voltage should be ~3.3V.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DC Power Supply | Electronic Load  (CC Mode) | Measured Output Voltage | Output Regulation Voltage Range | Measured PGOOD (~3.3V) | Pass/Fail |
| 3.3 VDC | 1.0 A |  | 1.176 VDC to 1.224 VDC |  |  |
| 3.3 VDC | 12.5 A |  | 1.176 VDC to 1.224 VDC |  |  |

1. Move J1 jumper from HI to LO to disable the device. Measured output and PGOOD voltages should be 0V, respectively.
2. Turn DC Power Supply off.