**Document No. : 18-073691-01 Rev A**

**Title : EVAL-LT83205-AZ Customer Evaluation Board Test Procedure**

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| REVISION HISTORY | | | | |
| **Revision** | **ECR #** | **Description of Change** | **Date** | **Author** |
| A | ECR-0xxxxx | Initial Release | 11/11/2024 | Jack Chen, Xinyu Liang and Walker Bai |
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**EVAL-LT83205-AZ (LT83205) demo board production test procedure**

1. **REQUIRED EQUIPMENTS**
2. DC Power supply, capable of 20V/3A
3. E-load, capable of 10V/10A total
4. Four DMMs, for voltage & current measurement
5. **JUMPER POSITION**
6. JP1 **FCM** (FCM/PULSE SKIP MODE/SYNC)

**Test Procedure for EVAL-LT83205-AZ**

1. **Turn off the Power Supply and the E-load.**
2. **Connect the Power Supply, E-load and DMMs as shown below. The Jumper JP1 should be placed at FCM.**

A close-up of a computer circuit

Description automatically generated

1. **Keep the E-load off. Set the Power Supply to 5V. Then turn on the Power Supply. Check Vout (should be 0.95V~1.05V). Check Iin (should be less than 0.05A).**
2. **Set E-load to constant current (‘CC’) mode at 0A. Then turn on the E-load. Adjust power supply voltage Vin and the E-load current Iout according to the following table and verify if input current Iin and output voltage Vout are within expected range.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test | Vin  (V) | Iout  (A) |  | MIN | TYP | MAX |  | MIN | TYP | MAX |
| 1 | 5 | 0 | Iin (A) |  |  | 0.05 | Vout(V) | 0.95 | 1 | 1.05 |
| 2 | 5 | 5 | Iin (A) | 1.3 | 1.43 | 1.64 | Vout (V) | 0.95 | 1 | 1.05 |
| 3 | 12 | 5 | Iin (A) | 0.53 | 0.58 | 0.62 | Vout (V) | 0.95 | 1 | 1.05 |

1. **Turn off power supply, E-load and disconnect all DMM.**

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