



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-DS200SSBC

Test Procedure for a DS200SSBC

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A	Initial release	Steve Pharris	11/1/2011
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DATE 11/1/2011	DATE	DATE	DATE 11/7/2011

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1. SCOPE

1.1 This is a functional testing procedure for a DS200SSBC.

2. STANDARDS OF QUALITY

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. APPLICABLE DOCUMENTS

3.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.

3.1.1 Check board's electronic folder for more information

4. ENGINEERING REQUIREMENTS

4.1 Equipment Cleaning

4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to site specific SRA's for cleaning guidelines.

4.2 Equipment Inspection

4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.2.1.1 Wires - broken, cracked, or loosely connected

4.2.1.2 Terminal strips / connectors - broken or cracked

4.2.1.3 Components - visually damaged

4.2.1.4 Capacitors - bloated or leaking

4.2.1.5 Solder joints - damaged or cold

4.2.1.6 Circuit board - burned or de-laminated

4.2.1.7 Printed wire runs / Traces - burned or damaged

5. EQUIPMENT REQUIRED

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1		Fluke 87 DMM (or Equivalent)

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6. Testing Process

6.1 Testing Procedure

- 6.1.1 Verify that no solder shorts exist between adjacent pins.
- 6.1.2 Verify that all parts shown on the silk-screen are present, and assembled per the silk-screen.
- 6.1.3 Verify fast ons KF, K3A, A3 and K3 are present.
- 6.1.4 Verify all six eyelets are assembled and soldered with the larger flange on the component side of the fab.
- 6.1.5 Using the Digital Ohmmeter, verify R31, R32, R34 and R35 are 56K ohms 2W resistors.
- 6.1.6 Using the Digital Ohmmeter, verify R37 and R38 are 82 ohm resistors.
- 6.1.7 Using the Digital Ohmmeter, verify R39 is a 4.7 ohm resistor.
- 6.1.8 Verify that MOV1, MOV2 and MOV3 are marked 510L80.
- 6.1.9 Verify that D1 and D2 are marked SRP600K.
- 6.1.10 Verify that with T1 closest to you, that the left wire from the side of T1 closest to you goes to post T2 and that the right wire from T1 goes to post T2. Verify that both wires are fully seated on the posts.
- 6.1.11 Verify that with T1 closest to you, that the upper left wire on the side of T1 furthest from you is marked K3 and is terminated with a female fast on terminal.
- 6.1.12 Verify that with T1 closest to you, that the lower left wire on the side of T1 furthest from you is marked 5 and is terminated with a ring terminal.
- 6.1.13 Verify that with T1 closest to you, that the upper right wire on the side of T1 furthest from you is marked 6 and is terminated with a ring terminal.
- 6.1.14 Verify that with T1 closest to you, that the lower right wire on the side of T1 furthest from you is marked 3 and is terminated with a ring terminal.
- 6.1.15 Verify that connector FCPL is assembled with the flange on the side closest to T1.
- 6.1.16 Verify that C6 and C7 are secured to the fab with cable ties.
- 6.1.17 Verify that C6 and C7 are .1 mfd. @ 1200 VDC capacitors.

6.2 ***TEST COMPLETE***

7. Notes

- 7.1 This test was copied from a test file in the design folders.

8. Attachments

- 8.1 None at this time.