



LOU-GED-IS200DAMC

Test Procedure for IS200DAMCG1xxx Gate Drive Amplifier card.

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1. SCOPE

1.1 This is a functional testing procedure for an IS200DAMCG1xxx gate drive amplifier card.

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 N:\Design Folders\IS2\IS200D

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 the local documented procedures 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)
2		DC Power Supply
1		Function Generator
1		2 Channel O-Scope

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6. TESTING PROCESS

6.1 Setup

- 6.1.1 **Do NOT apply power to unit at this time.**
- 6.1.2 Connect +15 VDC ± 0.2 VDC to PPL-5 and to PPL-1.
- 6.1.3 Connect - 7 VDC ± 0.2 VDC to PPL-6 and to PPL-2.
- 6.1.4 Connect both DC Supplies returns to PL-6 and to PL-2.
- 6.1.5 Connect Frequency Generator, adjusted for 60 Hz @ 5 Volts peak to peak output, positive output to PL-7 and to PL-1.
- 6.1.6 Connect Frequency Generator, negative output to PL-6 and to PL-2.
- 6.1.7 Connect O-Scope Ch.1 across R21 and Ch2 across R22.

6.2 Testing Procedure

- 6.2.1 Turn on both DC Supplies at this time. Should show less than 100 mA draw at this time.
- 6.2.2 Turn on Function Generator at this time.
- 6.2.3 The waveforms on the O-Scope displayed on the O-Scope should be identical and could overlap.
- 6.2.4 Use Fluke 87 DMM (or Equivalent), set to measure Resistance, to measure the resistance between CU connector and PL-12. Reading should be less than 3 Ohms.
- 6.2.5 Use Fluke 87 DMM (or Equivalent), set to measure Resistance, to measure the resistance between CL connector and PL-5. Reading should be less than 3 Ohms.
- 6.2.6 ***TEST COMPLETE ***

7. NOTES

- 7.1 None at this time.

8. ATTACHMENTS

- 8.1 None at this time.