Rev. **DRAFT**

Revision Date: 15 November 2021

Document Title

Purpose

This test plan provides detailed tests to fully repair and adjust the 000-000 miniPCB (UUT).

Scope

This test plan provides confidence that UUT performance characteristics are within specifications.

Definitions

- UUT Unit Under Test
- OOT Out of Tolerance
- TP Test Point
- Open High resistance, effectively an open circuit
- Short Low resistance, effectively a short circuit
- Unable to Adjust After adjusting through the entire adjustment range, the UUT remains OOT.

Equipment

- Test Device Assembly: N/A
- Test Software: N/A
- Oscilloscope: N/A
- Multimeter: N/A
- Power Supply: N/A

Safety

- Electrical Safety Hazards: N/A
- Thermal Safety Hazards: N/A
- Chemical Safety Hazards: N/A
- Mechanical Safety Hazards: N/A

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Failure Mode Assumptions

- 1. Component values selected during design and development provide targeted test results.
- 2. One and only one failure mode occurs at any time.
- 3. Failure modes occur regardless of ambient temperature.
- 4. Solder-joint failures result in a failure mode attributed to a component.
- 5. Resistors fail open, fail short, fail out of tolerance high, or fail out of tolerance low.
- 6. Capacitors fail open, or fail short.
- 7. Transistors fail with collector-base junction open, or fail with all pins shorted.

Notes

- 1. Perform a thorough visual inspection of the UUT prior to testing.
- 2. The UUT must pass a full test sequence for the conclusion END (PASS) to be valid.
- 3. Each test is performed by (a) applying power, (b) applying stimuli, (c) performing measurement, and (d) proceeding according to acceptance criteria.
- 4. When proceeding to a new test, maintain applied power if the new test has the same power requirement(s).
- 5. When proceeding to a new test, maintain applied stimuli if the new test has the same stimuli requirement(s).
- 6. After replacing parts, restart testing at test T1.

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UUT Connections

The 000-000 miniPCB has number (#) test connections.

Designator	Name	Description	Note
J1.1	+V	Power	
J1.2	0V	Ground	
J1.3	NC	No Connection	Reserved for -V power
J1.4	Input	Analog input	
J1.5	Output	Analog output	
TP6	Test Point 1	Q1 base	
TP7	Test Point 2	Q1 collector	
TP8	Test Point 3	Q1 emitter	

Test Setup

Insert a diagram of the test setup.



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Testing

Each test is specified in Test Procedure TP.000-000.

Test No.	Test Name
T1	
Т2	
Т3	
T4	
T5	
Т6	
•••	

Test Report

All test results are recorded in the Test Results Form, TRF.000-000.

Test reports are documented in the Test Report Form, TR.000-000.



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Supporting Documents

#	Doc. No.	Document Type	Document Title
1	000-000	Datasheet	(Unit Under Test)
2	000-000	Datasheet	(Text Device Assembly)
3	000-000	Application	(Test Device Software)
4	TP.000-000	Test Procedure	
5	TR.000-000	Test Report	
6	TRF.000-000	Test Result Form	

Revision History

Revision	Note	Date
Α	Initial Release	DDMMMYYYY