Test Procedure for EVAL-CN0253-SDPZ CftL board, Rev.A

1. Set the jumpers LK1, 2, and L3 to position B.
2. Power up the board from a ±10V supply, using EXTERNAL VDD, GND and VSS.
3. Check supply current to be less than 0.5 mA.
4. Remove jumpers from BAT1 to BAT8.
5. Set the jumper EN to position B. Set jumpers A0, A1, and A2 to position A.
6. Measure the resistance between BAT1+ and T3. It should be <25 ohms for correct operation.
7. Measure the resistance between BAT2+ and T2. It should be <25 ohms for correct operation.
8. Measure the resistance between BAT2+, BAT3+, BAT4+, BAT5+, BAT6+, BAT7+, BAT8+, and T3. They should be >500 kilohms for correct operation.
9. Measure the resistance between BAT3+, BAT4+, BAT5+, BAT6+, BAT7+, BAT8+, *BAT8-*, and T2. They should be >500 kilohms for correct operation.
10. Set jumpers A0, A1, and A2 to position B, A, and A.
11. Measure the resistance between BAT2+ and T3. It should be <25 ohms for correct operation.
12. Measure the resistance between BAT3+ and T2. It should be <25 ohms for correct operation.
13. Measure the resistance between BAT1+, BAT3+, BAT4+, BAT5+, BAT6+, BAT7+, BAT8+, and T3. They should be >500 kilohms for correct operation.
14. Measure the resistance between BAT2+, BAT4+, BAT5+, BAT6+, BAT7+, BAT8+, *BAT8-*, and T2. They should be >500 kilohms for correct operation.
15. Set jumpers A0, A1, and A2 to position B, B, and A.
16. Measure the resistance between BAT4+ and T3. It should be <25 ohms for correct operation.
17. Measure the resistance between BAT5+ and T2. It should be <25 ohms for correct operation.
18. Measure the resistance between BAT1+, BAT2+, BAT3+, BAT5+, BAT6+, BAT7+, BAT8+, and T3. They should be >500 kilohms for correct operation.
19. Measure the resistance between BAT2+, BAT3+, BAT4+, BAT6+, BAT7+, BAT8+, *BAT8-*, and T2. They should be >500 kilohms for correct operation.
20. Set jumpers A0, A1, and A2 to position A, B, and A.
21. Measure the resistance between BAT3+ and T3. It should be <25 ohms for correct operation.
22. Measure the resistance between BAT4+ and T2. It should be <25 ohms for correct operation.
23. Measure the resistance between BAT1+, BAT2+, BAT4+, BAT5+, BAT6+, BAT7+, BAT8+, and T3. They should be >500 kilohms for correct operation.
24. Measure the resistance between BAT2+, BAT3+, BAT5+, BAT6+, BAT7+, BAT8+, *BAT8-*, and T2. They should be >500 kilohms for correct operation.
25. Set jumpers A0, A1, and A2 to position A, B, and B.
26. Measure the resistance between BAT7+ and T3. It should be <25 ohms for correct operation.
27. Measure the resistance between BAT8+ and T2. It should be <25 ohms for correct operation.
28. Measure the resistance between BAT1+, BAT2+, BAT3+, BAT4+, BAT5+, BAT6+, BAT8+, and T3. They should be >500 kilohms for correct operation.
29. Measure the resistance between BAT2+, BAT3+, BAT4+, BAT5+, BAT6+, BAT7+, *BAT8-*, and T2. They should be >500 kilohms for correct operation.
30. Set jumpers A0, A1, and A2 to position B, B, and B.
31. Measure the resistance between BAT8+ and T3. It should be <25 ohms for correct operation.
32. Measure the resistance between *BAT8-* and T2. It should be <25 ohms for correct operation.
33. Measure the resistance between BAT1+, BAT2+, BAT3+, BAT4+, BAT5+, BAT6+, BAT7+, and T3. They should be >500 kilohms for correct operation.

34. Measure the resistance between BAT2+, BAT3+, BAT4+, BAT5+, BAT6+, BAT7+, BAT8+, and T2. They should be >500 kilohms for correct operation.
35. Set jumpers A0, A1, and A2 to position B, A, and B.
36. Measure the resistance between BAT6+ and T3. It should be <25 ohms for correct operation.
37. Measure the resistance between BAT7+ and T2. It should be <25 ohms for correct operation.
38. Measure the resistance between BAT1+, BAT2+, BAT3+, BAT4+, BAT5+, BAT7+, BAT8+, and T3. They should be >500 kilohms for correct operation.
39. Measure the resistance between BAT2+, BAT3+, BAT4+, BAT5+, BAT6+, BAT8+, *BAT8-*, and T2. They should be >500 kilohms for correct operation.
40. Set jumpers A0, A1, and A2 to position A, A, and B.
41. Measure the resistance between BAT5+ and T3. It should be <25 ohms for correct operation.
42. Measure the resistance between BAT6+ and T2. It should be <25 ohms for correct operation.
43. Measure the resistance between BAT1+, BAT2+, BAT3+, BAT4+, BAT6+, BAT7+, BAT8+, and T3. They should be >500 kilohms for correct operation.
44. Measure the resistance between BAT2+, BAT3+, BAT4+, BAT5+, BAT7+, BAT8+, *BAT8-*, and T2. They should be >500 kilohms for correct operation.
45. Set the jumper EN to position A. Set jumpers A0, A1, and A2 to position A. Replace jumpers BAT1 to BAT8.