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Reliability Test Report for BFX-AT100

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Revision Change History

Revision	Description of Change	Date
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Table of Contents

Table of Contents..... 1

Scope 2

Purpose 2

Table of Testing Results Summary 2

UUT Description..... 2

1. Button Life Test..... 3

Scope

This document describes the performance requirements, validation criteria, and the validation tests which focus on BFX-AT100 product.

Purpose

1. Provide a formal functional demonstration of the product design reliability.
2. Identify any design discrepancies.
3. Reliability assurance of trial samples which are designed and fabricated in accordance with the customer's product specifications.
4. Conduct robustness testing on early production samples in accordance to customer's product testing specification.

Table of Testing Results Summary

NO.	Test Item	Test Result
1	Button Life Test	Pass

UUT Description

The Unit under Test (UUT) information is described in the following photos.



1. Button Life Test

Purpose:

Simulate the normal user usage to demonstrate that the button can withstand mechanical cycling straight pressure.

Quantity: 1 unit

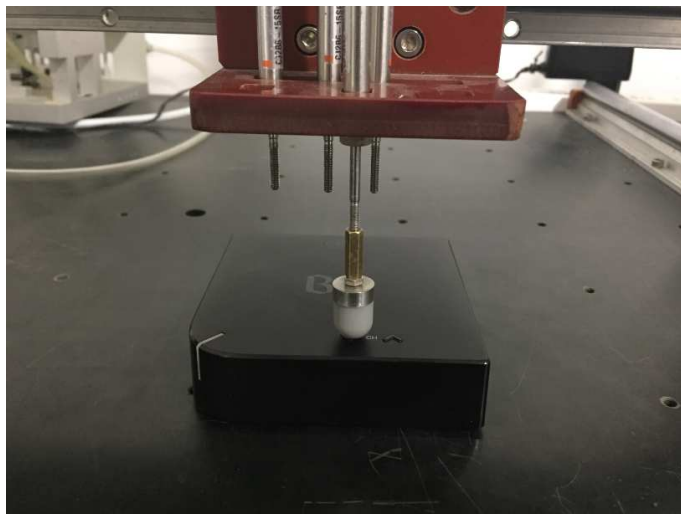
Test Objective:

Test cycles: 5000 cycles for each button (Channel up and channel down), 10000 cycles in total.

Test speed: 10cycles/min.

Test force: 300g

Test Picture:



Test Procedure:

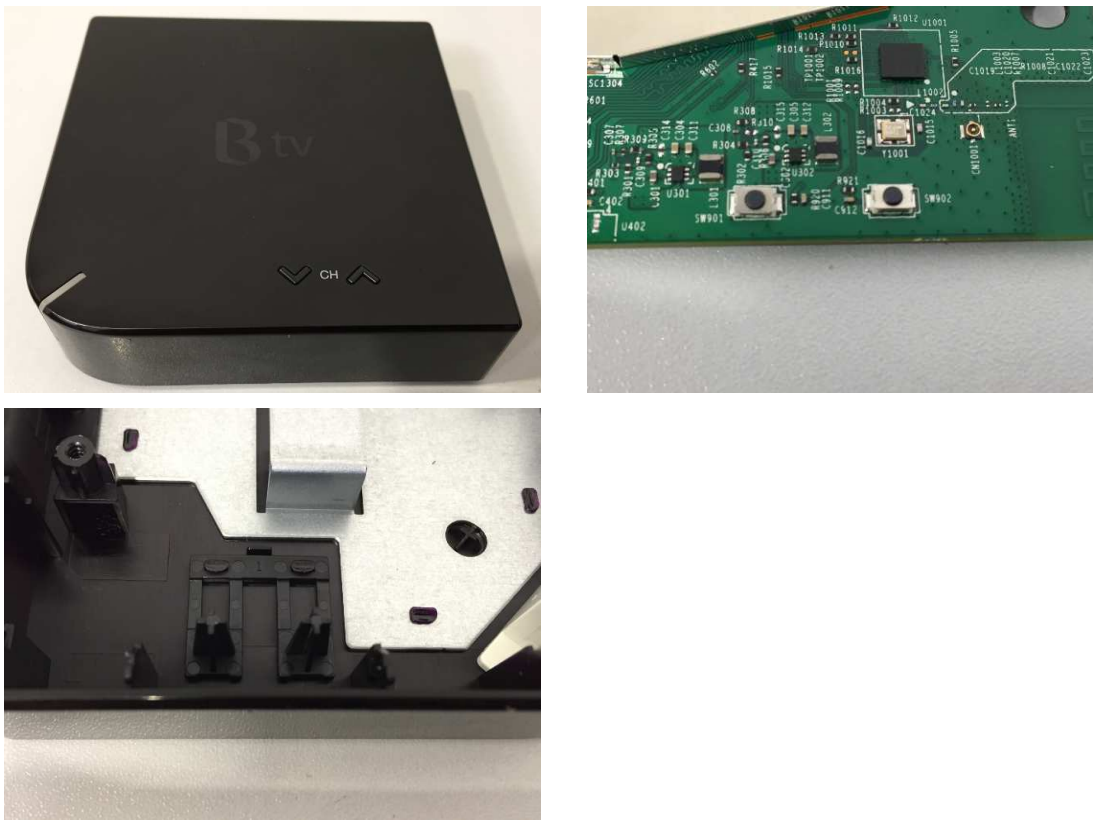
1. Perform functional check and visual inspection on UUTs before test, and make sure the button can work normally.
2. Press and release the button by Button Life Tester, repeat the action for 5000 cycles with speed of 10cycles/min, check the function after test.

Pass Criteria:

The button still can work normally after test, and it doesn't cause any damage to key itself.

Test Result: **Pass**

Before test



After test

