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Reliability Test Report

for BFX-AT100 (T99X171.00)

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Revision Change History

Revision	Description of Change	Date
1.0	Initial Release	04/24/2023

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Table of Contents

Table of Contents 1

Purpose: 2

Scope: 2

Short-term solution:..... 2

The summary of test items: 3

Panel Drawing: 4

Test setup and function test: 4

1. Chassis Static Load 5

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 environmental testing specification.

Scope:

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

The DUT H/W version is V125 and S/W revision is BFX_AT100-uesrdebug 9 PI 20200305 release-keys.

Short-term solution:

Old mold for PC + Btv part modified + ABS material.

The summary of test items:

NO.	Item	Test Condition	Q'ty	Period	Pass Criteria	Test result
1	Chassis Static Load	1. Applied position: TOP on the enclosure. 2. Weight and time: 5Kg/ diameter 9mm area, apply 30 seconds.	2 units	1 day	There is no damage of Mechanical material (for examples Cover's crack, breakdown	PASS

Front



A black, square-shaped BtV set-top box. The front panel features a power button, an Ethernet port, a USB port, and an optical audio output. The BtV logo is visible on the top surface.

SMPS_TYPE2541
Input: 100-250V
50/60Hz, 0.5A
Output: DC 5V/2A

The image shows the rear panel of an Apple TV 4K (2nd generation) device. It is a black, rectangular unit with a matte finish. From left to right, the ports and labels are: a circular microphone port labeled 'MIC'; an Ethernet port labeled 'LAN'; an HDMI port labeled 'HDMI'; the 'Dolby Audio' logo; a blue USB port labeled 'USB'; and a DC power port labeled 'DC 5V=2A'. The device is placed on a light-colored, slightly textured surface.

1. Chassis Static Load

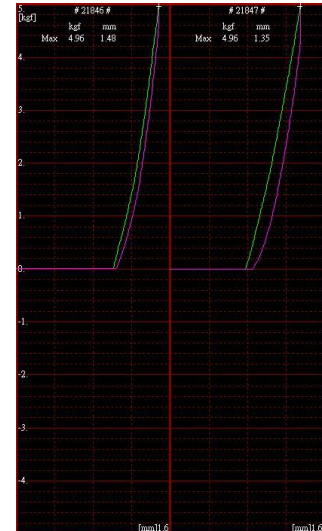
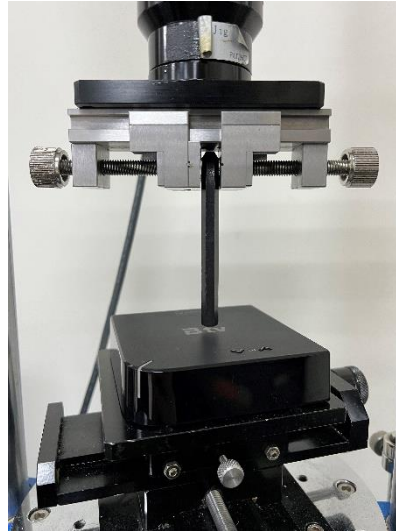
Purpose:

To demonstrate the product can meet worst case condition.

Quantity: 2 unit

Test Objective: 1. Applied position: TOP on the enclosure.
2. Weight and time: 5 Kg/ diameter 9 mm area, apply 30 seconds.

Test Profile:



Test Procedure:

1. Perform functional test and visual inspection on DUTs before test.
2. Place and fix the DUT on Precision Loading Tester.
3. Use diameter 9 mm area, start test for this orientation by add the push force to 5 kg, and hold on for 30s.
4. Released the force, and visual inspect the DUT to make sure no any damage of Mechanical material.

Pass Criteria:

There is no damage of Mechanical material (for examples Cover's crack, breakdown

Test Result: **PASS**



Sample 1



Sample 2