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Product Reliability Test Report

PRODUCT NAME: **Accutone Coded Telephone Headset**

PRODUCT MODEL: **TM610 Monaural Coded Telephone Headset**

PRODUCT CODE: **ZE-TM610**

LAST UPDATE: **AUG 2009**



PRODUCT NAME: **Accutone Coded Telephone Headset**

PRODUCT MODEL: **TB610 Binaural Coded Telephone Headset**

PRODUCT CODE: **ZE-TB610**

LAST UPDATE:





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Accelerated Lift Testing Result (ALT)

INITIAL TEST

Procedure:

Test the product using standard product tester refer to Product spec. for the critical functions to be verified.

Requirement:

All functional elements must be within product test specifications.

Test result:

Pass

INITIAL DROP TEST

Procedure:

Units are subjected to a number of 2 free-fall drops to a concrete floor from 1.5 meter height for 6 planes (total 12 drops).

Requirement:

Functional performance specifications must be met and no mechanical defects such as cracking, chipping, bent or broken contacts or separation are to occur. A part will pass for separation on this test only if no tools are required to snap product back together.

Test result:

Pass

CABLE BENDING TEST

Procedure:

Mount headset Cord on bending tester using R15 fixture in lab with a 0.2kg (200g) weight on cord near all joints and SR. Rotate the cable 20 times/minute and +/- 90° for 10,000 rotations, both two end of the cord should be tested. Verify no static can be heard, and there is no interruption to transmit or receive capability. Pull on the cord at the joints, SR and Receiver strain relief, and listen for any intermittent connections.

Requirement:

All functional elements must be within product specifications.
All samples must be full functional after the bending of 10,000 cycles.

Test result:

Pass

CABLE PULL TEST

Procedure:

Mount headset Cord on cable pulling Fixture, applying 40N(4.0kg) pulling force on cord near all joints and SR in 5 directions (left, right, front, rear and down). Verify no static can be heard, and there is no interruption to transmit or receive capability. Pull on the cord at all the joints, SR and Receiver strain relief, and listen for any intermittent connections.

Requirement:

All functional elements must be within product specifications. The cable pull must be no less than 45N. No physical deformation should be evident.

Test result:

Pass



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SWIVEL FUNCTION TEST

Procedure:

Rotate the boom at 60 times/minute and +/- 90° for 15,000 rotations.
Examine smooth operation and approximate movement force to a sample headset.

Requirement:

Mic. Boom Arm Rotation – Pivot the Mic. Boom to the ends of its rotation and verify the stopper is operating correctly.
Test the headset using the standard headset tester (AudioCom or equivalent) Refer to Product spec. for the functions to be verified and the critical parameters to be measured.

Test result:

Pass

RATCHET TEST

Procedure:

Mount the headset on push-pull tester mating on horizontal direction.
Testing speed 20 times/minute, 10,000 full cycles. Test for every 2000 cycles.
The period of each pull-push cycle should not be shorter than 3 seconds.
This test needs to be performed on both headband housings.

Requirement:

The headband ratchet function must be able to withstand >10,000 full-length pull/push activation's.
No more than 20% reduction in the frictional force can be accepted.

Test result:

Pass

ABRASION TEST

Procedure:

Apply the sample of the plastic parts of the Headset with the printed log on technical printings, respectively.

Test parameters:

Contact pressure: 1,5N
Unwinding Speed: 1m/min
Hole size: 0,56mm (diameter)
Length of abrasion paper band: In accordance with EN 60068 –2-32

Requirement:

Check the resistance of the printed logo and the technical printing against mechanical rubbing.
Visual inspection of logos and printings:
The printings must not be rubbed through at any point and must be clearly legible.

Test result:

Pass



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Accelerated Lift Testing Result (ALT)

PERFUME TEST

Procedure:

Apply 2 sprays of White Linen perfume (Estée Lauder) into a zip-lock plastic bag (60cm*48cm).
Place samples into the plastic bag.

Requirement:

Samples are inspected after 24, 48 and 72 hours for cracks and splits.
All functional elements must be within operational product requirements after this test.
No physical deformation should be evident.

Test result:

Pass