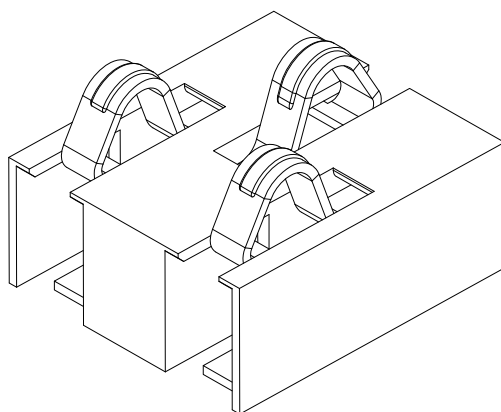




PRODUCT SPECIFICATION



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(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	LTBTMXR-030-BQ	SHEET No
A	EC No:	DATE:	PRODUCT NAME	2.00mm Pitch Battery Connector	1 of 3
DOCUMENT NUMBER:		CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:
PS-BC-0063		JEFF.YANG		KENNY.CHEN	DEVIN.CHEN



PRODUCT SPECIFICATION

1. SCOPE

1.1. Content

This specification covers performance, tests and quality requirements for **Battery connector**. These connectors are **used to mobile phone**.

2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, latest edition of the specification applies. In the event of conflict between requirements of this specification and product drawing, product drawing shall take precedence.

2.1. Commercial standards, specifications and report

3. REQUIREMENTS

3.1. Design and Construction

Product shall be of design, construction and physical dimensions specified on applicable product drawing.

3.2. Materials and Finish

- 3.2.1. Contact : **High Performance Copper Alloy, T=0.20mm.**
Finish : (a) Contact Area: **30u" Gold Plated.**
(b) Solder tail: **120u" min. Tin-Lead plated.**
(c) Underplate: **50u"~80u" Nickel plated** allover.
- 3.2.2. Housing : **Thermoplastic, UL94V-0 Rate.**

3.3. Ratings

- 3.3.1. Voltage: **4.5 Volts** DC (per pin) Max.
3.3.2. Current: **1 Amperes** DC (per pin) Max.
3.3.3. Peak Current: **5 Amperes.**
3.3.4. Operating Temperature: **-35°C to 85°C**

3.4. Performance and Test Description

Product is designed to meet electrical, mechanical and environmental performance requirements specified in Paragraph 3.5. All tests are performed at ambient environmental conditions per MIL-STD-1344A unless otherwise specified.

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PRODUCT SPECIFICATION

3.5 Test Requirements and Procedures Summary

Test Description	Requirement	Procedure
Examination of Product	Product shall meet requirements of applicable product drawing and specification.	Visual, dimensional and functional per applicable quality inspection plan.
ELECTRICAL		
Low-Signal Level Contact Resistance	25 m Ω maximum	Mate subject connector with compatible connector.
Insulation Resistance	100 M Ω minimum	Apply DC 500 Volts between adjacent contacts of mated connectors for one minute.
Dielectric Withstanding Voltage	500 VAC initial and 250 VAC final at sea level for 1 minute. No discharge, flashover or breakdown. Current leakage: 5 mA max.	Test between adjacent contacts of mated/unmated connectors.
MECHANICAL		
Normal Force	100 Gram minimum.(Traveling of battery contact point=1.0mm)	Mate connector with a suitable gauge for each pin at rate of 25mm/min. Measure force when gauge reaches surface of connector.
Durability	10000 cycles.	The sample should be mounted on the tester and fully mated and unmated the number of cycles specified at the rate of 25mm/min.
ENVIRONMENTAL		
Salt Spray	Mate connectors: Duration:48 Hours Exposure; Atmosphere:salt spray	10 milliohms Maximum (change from initial) & Visual:No Damage

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