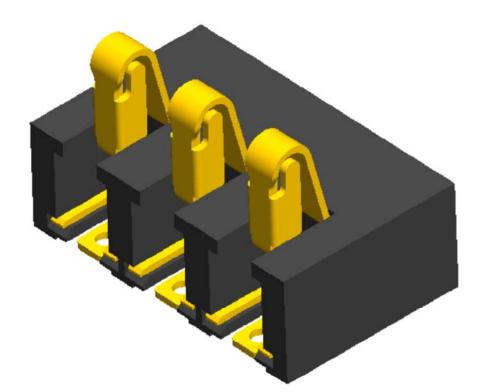


ACCOR PRODUCT SPECIFICATION



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REVISION:	ECR/ECN	I INFORMATI	<u>ON:</u>	PRODUCT NO		BTM49	SERIES		SHEET No
T1	<u>EC No:</u> DATE:	NEW SPE 2014/04/*	_	PRODUCT NAME		N BATTER H 2.5mm ,F		1 of 5	
DOCUME	ENT NUME	BER:	CRE	ATED / REVISE	D BY:	<u>CHECKE</u>	<u> </u>	APPROV	ED BY:
PS-E	3T-000	2		Linda	la Jerry kimi			ni	



1.0 SCOPE

This Product Specification covers the performance requirements for 3pin 2.5mm pitch battery connector series.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S) 3 pin 2.5mm pitch battery connector BTM49 series

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS See appropriate sales drawings for details on dimensions ,materials , plating and markings.

2.3 SAFETY AGENCY APPROVALS

See appropriate sales drawings

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Please refer to the Sales Drawings , and other sections of this Specification for specific references to applicable documents and specifications. In cases where the Product Specification differs from the Sales Drawings, the Sales Drawing will take precedence

EIA-364 MIL-STD-1344A MIL-STD-202F IEC 68

4.0 RATINGS

4.1 VOLTAGE

25 Volts DC

4.2 CURRENT

1.5 A Max.

4.3 TEMPERATURE

Operating Temperature Range: - 30°C to + 85°C Storage Temperature Range: - 40°C to + 85°C

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T1	EC No:	NEW SP	EC.	PRODUCT	3 P	IN BATTER CONNE	CTOR	2 of 5
	DATE:	2014/04/	17	NAME	PITC	H 2.5mm ,HEIGHT 2	2.80mm	2013
DOCUM		BER:	CRE	ATED / REVISE	D BY:	CHECKED BY:	<u>APPROV</u>	ED BY:
PS-	BT-000)2		Linda		Jerry	kim	ni



5.0 PERFORMANCE

Item	Test Items	Requirement	Procedures
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Specimens shall be investigated by 10x (or higher) microscope.

		Electrical Requ	lirements
2	Contact Resistance (LLCR)	20 m Ω Max (Initial) 40 m Ω Max (Final)	It should be tested in accordance with method 3004.1 of MIL-STD-1344A. Measure by low level (Max: 20mV, 100mA)
3	Insulation Resistance	1000 MΩ Min .	It should be tested in accordance with method 3003.1 of MIL-STD-1344A. When 100V DC is applied between adjacent contacts and insulation resistance is measured with in one minute.
4	Dielectric Withstanding Voltage	There shall be no current leakage and flashover or damage detected.	It should be tested in accordance with method 3001.1 of MIL-STD-1344A. When the 500V AC r.m.s for one minute applied between adjacent contacts.

		Mechanical Rec	quirements
5	Durability	LCCR: 40 m Ω Max	It should be tested in accordance with method 2016 of MIL-STD-1344A. The contacts of connector shall be subject to 10000 cycles of mating and unmating. (Travel=1.2mm)
6	Vibration	LCCR: 40 mΩ Max & Contact discontinuity < 0.1usec	Vibration test shall be in accordance with IEC $68-2-6$ (sine sweep 10Hz- 150 Hz,0.35mm.2G,3-axis), Contact discontinuity shall be measured at nominal position(3.90 ±0.04mm) from the PCB level.
7	Mechanical shock	LCCR: 40 mΩ Max & Contact discontinuity < 0.1usec	Shock test shall be in accordance with IEC 68-2-27 (Half-sine pulse, 50G,11ms, 3 shocks, 6 directions), Contact discontinuity shall be measured at nominal position(3.90 \pm 0.04mm) from the PCB level.
8	Mating Force	1N Min	The 1.2mm deflection should be from the tip of contact.

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T1	<u>EC No:</u> DATE:			PRODUCT NAME	3 PIN BATTER CONNECTOR PITCH 2.5mm ,HEIGHT 2.80mm				
DOCUM	IENT NUME	BER:	CRE	EATED / REVISED BY:		CHECKED BY: APPRO		ED BY:	
PS-	BT-000	2		Linda		Jerry	kin	ni	



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9	Terminal Retention Force (in Housing)	4.4N (0.45 kgf) Min.	It should be tested in accordance with method 2007.1 of MIL-STD-1344A. The end of terminal shall be pulled in a perpendicular to base housing at a constant speed of 25mm/minute.
		Environment Re	quirements
10	Thermal Shock	LCCR: 40 mΩ Max & Appearance: No physical damage & I.R.> 1000 MΩ	Connector shall be tested in accordance with method 1003.1 of MIL-STD-202F condition A. -40°C(30 minutes) -> +25°C(5 minutes) -> +85°C(30 minutes) Consecutive 5 cycles.
11	Static Humidity	LCCR: 40 mΩ Max & Appearance: No physical damage & I.R.> 1000 MΩ	The ummated connector shall be tested in accordance with method 1002.2 of MIL-STD- 1344A test procedure type I condition B. Temperature: 40 ±2°C Humidity: 90-95% (RH) Duration: 96hrs.
12	Solder ability	Solder coverage: 95% MINIMUM	The end of post shall be applied in accordance with method 208F of MIL-STD- 202F. Soldering temperature: 235 ±5°C Soldering time: 5 ±0.5 sec
13	Solder Heat Resistance	Appearance: No physical damage	It should be tested in accordance with method 210B of MIL-STL-202F condition J. Soldering temperature: 235 ±5°C Duration: 30 ±5 sec
14	Salt Spray	LCCR: 40 mΩ Max & Appearance: No physical damage	Connector shall be tested in accordance with method 100.1 of MIL-STD-1344A condition B Temperature: 35±2°C Density: 5% in weight Duration: 48hrs
15	Temperature Life(High)	LCCR: 40 mΩ Max	It should be tested in accordance with method 1005.1 of MIL-STD-1344A. The test temperature: 85±2°C for 96hrs.
16	Temperature Life(Cold)	LCCR: 40 mΩ Max	Store in temperature: -40±3°C for 72hrs. Then leave in the ambient temperature for 1hour. The other issues are in conformity to EIA-364-59.

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage. See packaging appropriate drawings

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DOCUN	IENT NUME	<u>BER:</u>	CRE	ATED / REVISE	ED BY:	CHECKED BY:	APPROV	ED BY:
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ACCOR PRODUCT SPECIFICATION

7.0 TEST GROUPINGS

								Те	st Gro	oup				
Test Items					А	В	С	D	Е	F	G	н	I	
								Test	Sequ	ience				
Exam	Examination of Product					1,9	1,9	1,5	1,5	1,3	1,3	1,3	1,:	3
Conta	act Resista	ance (LLC	CR)		3,6	2,6	2,6	2,4	2,4					
Dieleo	ctric With	standing \	/oltag	е		4,8	4,8							
Insula	ation Resi	stance				3,7	3,7							
Matin	g Force				2,5									
Durat	oility				4									
Reten	tion Forc	е			8									
Static	Humidity	/				5								
Thern	nal Shock	(5							
Salt S	pray							3						
Temp	erature Li	ife							3					
Solde	er ability									2				
Solde	er Heat Re	sistance									2			
Vibrat	tion											2		
Mech	anical Sho	ock											2	
	Sam	ple Size			5	5	5	5	5	5	5	2	2	
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SION:	ECR/ECN	INFORMATI	<u>ON:</u>	PRO				BTI	M49	SERI	ES			SHEE
1	<u>EC No:</u> DATE:	NEW SPI 2014/04/	EC.	PROE NA	оист		PIN E	BATT	ER C	ONN	IECT			5 c
	IENT NUMB	ER:		ATED /	NAME PITCH 2.5mm ,HEIGHT 2.80mm ED / REVISED BY: CHECKED BY: APPRON						ROVE	D BY:		
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