#### SPECIFICATION FOR APPROVAL

DESCRIPTION: Pitch 2.50mm Battery Connector				
CUSTOMER PROD.NO/DWG.N	O:			
E&T PROD.NO:	8950K-XXXXN-00,20X			
APPROVAL SHEET NO:				
E&T DWG. NO./DOCUMENT:	8950K-XXXN-00,20X			

REV: A1

# PLEASE RETURN TO US ONE COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVED SIGNATURES.

APPROVED SIGNATURES				



ENTERY INDUSTRIAL CO., LTD.
E&T ELECTRONICS (DONG GUAN) CO., LTD.
E&T ELECTRONICS (SU ZHOU) CO., LTD.
E&T ELECTRONICS (NANKEEN)CO.,LTD.

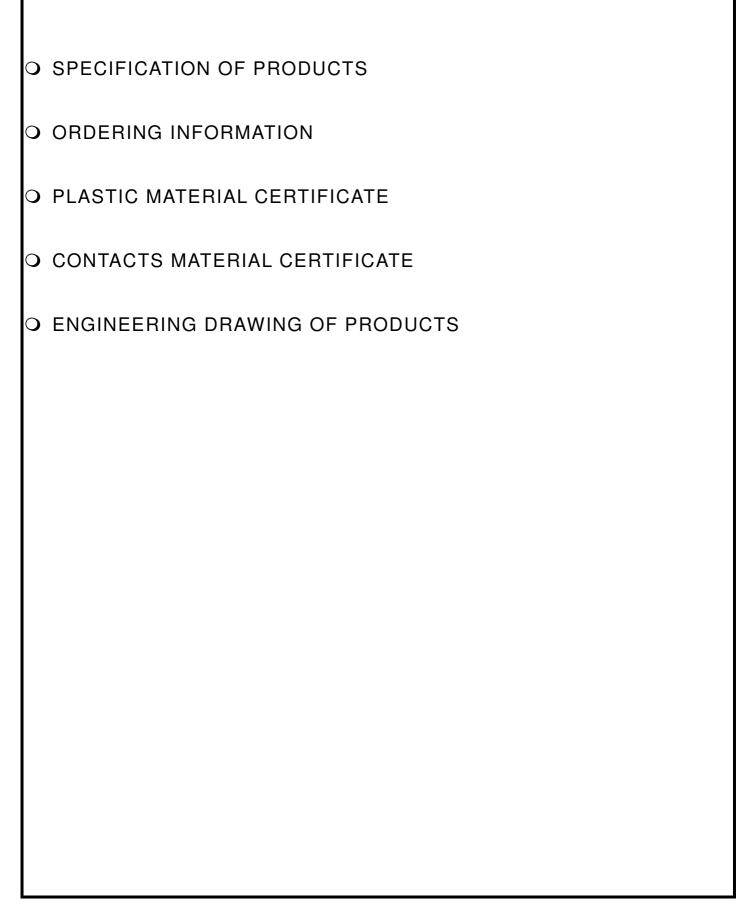
	ENTERY INDUSTRIAL CO., L	TD.
	Title :Pitch 2.50mm Battery Conn	iector
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RELEASE HISTORY	Title: Pitch 2.50mm Ba	ttery Connector
A1 2012/10/23	This Document Contains Informat	
Rev Description  Document No.	E&T And Should Not Be Used Wi	
	Prepared By: Hill Chang Checked By:	Date: 11,25'2008  Date: 12,21'3 72/2/
8950K-XXXN-00,20	Approved By:	Date: 12, 13 72/7

### **TEST SEQUENCES IDENTIFICATION**

					Tes	t Grou	o (a)			
	Test of description	Α	В	С	D	Е	F	G	Н	
					Tes	t Sequ	ence			
1	Examination of Product	1,7	1,9	1,9	1,5	1,5	1,3	1,3		
2	Contact Resistance	3,6	2,6	2,6	2,4	2,4				
3	Dielectric Withstanding Voltage		4,8	4,8						
4	Insulation Resistance		3,7	3,7						
5	Mating Force	2,5								
6	Durability	4								
7	Retention Force								1	
8	Humidity		5							
9	Thermal Shock			5						
10	Salt Spray				3					
11	Temperature Life					3				
12	Solder ability						2			
13	Soldering Heat withstanding							2		

(a) Numbers indicate sequence in which tests are performed.

## **TABLET OF CONTENTS**



### SPECIFICATION OF PRODUCTS

#### 1. Scope

This product specification contains the test method, the general performance and requirement for interconnection system connectors. The specification covers 8950 series connectors manufactured by ENTERY INDUSTRIAL CO., LTD.

2. Construction and physical dimensions shall be same as specified by drawings

3. Characteristics

Voltage rating: 25V DC

Current rating: 2Amps/Contact

Operating temperature:  $-40^{\circ}$ C to  $+85^{\circ}$ C Storage temperature :  $-40^{\circ}$ C to  $+85^{\circ}$ C

4. Mechanical performance

Item	Description	Test method & Condition	Requirement
Mating force		Load is conducted between applicable component	100gf×n Min (n=No of contact)
4-1		(battery seat) with in the 100 cycles of mating and unmating. (Travel=1.4mm)	
4-2	Durability	It should be tested in accordance with method 2016 of MIL-STD1344A. The contacts of connector shall be subject to 10000 cycles of mating and unmating.  (Travel=1.4mm)	No defect Contact resistance shall be 50 mΩ or less after 10000 cycles of engagement
4-3	Retention force	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.	4.4N(0.45kgf) Min

5. Electrical performance

	ai periorinance		
Item	Description	Test method & Condition	Requirement
5-1	Contact resistance	It should be tested in accordance	Initial: 30 m $\Omega$ Max
		With method 3002.1 of MIL-SDT-	Final: 50 m $\Omega$ Max
		-1344A. Measure by low level	
		(Max:20mV, 100mA)	
5-2	Insulation	It should be tested in accordance	1000 MΩ Min.
	resistance	With method 3003.1of MIL-STD-	
		-1344A. When 100V DC is applied	
		between adjacent contacts and	
		insulation resistance is measured	
		with in one minute.	
5-3	Dielectric	The connector shall be tested in	There shall be no
	withstanding	Accordance with method 3001.1 of	current leakage and
	voltage	MIL-STD-1344A. When the 500V	flashover or damage
		AC r.m.s for one minute applied	detected
		between adjacent contacts.	

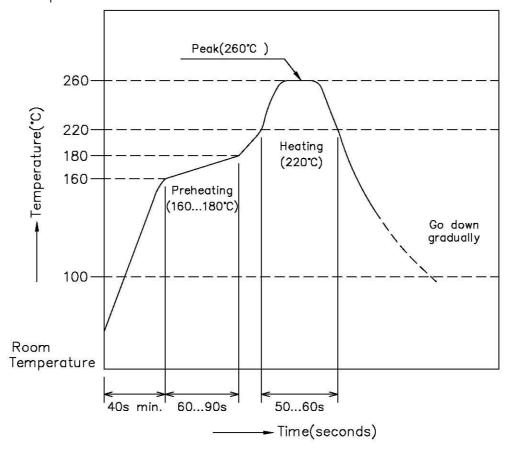
6. Environmental performance

Item	Description	Test method & Condition	Requirement
6-1	Humidity	The unmated connector shall be Tested in accordance with method 1002.2 of MIL-STD-134A test procedure type I condition B . Temperature: 40±2Humidity:90-95 % (RH) Duration:96 hours.	No damage. Contact resistance shall be less than 50 m $\Omega$ and insulation resistance shall be more than 1000 M $\Omega$ after the test
6-2	Thermal shock	Connector shall be tested in accordance with method 1003.1 of MIL—STD-202F condition A40°C (30 minute)→+25°C (5 minute) →+85°C (30 minute) consecutive 5 cycles.	No damage.  Electrical and mechanical Performance specifications should be satisfied.

Item	Description	Test method & Condition	Requirement
6-3	Salt spray	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:48 hours	•
6-4	Temperature life	It should be tested in accordance with method 1005.1 of MIL-STD-1344A. The tested temperature: 85±2°C for 96 hours.	Contact resistance shall be less than 50 m $\Omega$ .
6-5	Solder ability		More than 95% of the immersion shall be covered with solder
6-6	Soldering heat withstanding	It should be tested in accordance with method test condition K of MIL-STD-202F. Soldering temperature: 260±5°C. Duration time: 10±5 sec.	Inspect dimension During the test, no physical damage

#### INFRARED REFLOW CONDITION

- 1) Ascending time to preheating temperature 170°C shall be 40 seconds minimum.
- 2) Preheating shall be fixed at 160...180°C for 60...90 seconds.
- 3) Heating shall be fixed at 220°C for 50...60 seconds.
- 4) At 260±5°C peak shall be 10 seconds maximum.



### **ORDERING INFORMATION**

#### 2.50mm Pitch 8950 Series Connectors

8950 series connectors are designed for board to battery seat and pitch 2.50mm(0.098")contact spacing SMT power row versions available.

They are used in mobile phone and other consumer applications. Where Reduced space is requirement.

#### **FEATURES:**

- It is approved to 10000 cycles of mating and unmating.
- A compact design for reduced space.

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## RELEASE HISTORY

Rev.	Revisions	Date	Executor	Description
A1	RE201206014 RE201210002	OCT-23-2012	JIMMY	UPDATE MATERIAL