SPECIFICATION FOR APPROVAL

DESCRIPTION: Pitch 1.25 mm Wire To Board Connector, R/A, SMT Type

CUSTOMER PROD.NO/DWG.NO:

E&T PROD.NO:

3804K-XXXX-XXX

APPROBAL SHEET NO:

E&T DWG. NO./DOCUMENT: 3804K-XXXX-XXX

REV: A3

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.

Title :Pitch 1.25 mm Wire To Board Connector, R/A,SMT Type

	RELEASE HISTORY	Title: Pitch 1.25mm Wire To Board Connec	tor, R/A,SMT Type		
A3	2012/09/13	This Document Contains Information That Is Proprietary To			
Rev	Description	E&T And Should Not Be Used Without Written Permission			
Docume	ent No.	Prepared By: Joan Huang Date: 04,21'2010			
3804K-XXXX-XXX		Checked By:	Date: 9 10-012		
		Approved By:	Date:		

GROUP AND TEST SEQUENCE

	Test of Examination		Test Group									
			В	С	D	Е	F	G	Η	Ι	J	K
1	Examination of Product	1,9	1,6	1,5	1,5	1,5	1,3	1,3	1,3	1,4	1,5	
2	Contact Resistance	2,6	2,5	2,4	2,4	2,4				2,3	2,4	
3	Insulation Resistance	3,7										
4	Dielectric Strength	4,8										
5	Insertion Force And Withdrawal Force		3									
6	Terminal / Housing Retention Force											1
7	Durability		4									
8	Vibration			3								
9	Heat Resistance				3							
10	Cold Resistance					3						
11	Humidity	5										
12	Solder Ability						2					
13	Resistance To Soldering Heat							2				
14	Steam Aging								2			
15	Temperature Cycling										3	

ENTERY INDUSTRIAL CO., LTD. PRODUCT SPECIFICATION

1. SCOPE :

This specification covers the 1.25 mm pitch Wire To Board connector series.

2. PRODUCT NAME AND PART NUMBER :

Product Name	E&T Part Number
1.25mm Wire To Board Connector, R/A,SMT Type	3804K-XXXX-XXX

3. RATINGS :

Item	Standard		
Rated Voltage (MAX.)	150 V	AC/DC	
Rated Current (M.)	1 A	A0/D0	
Ambient Temperature Range	-25 ⁰ C ⁻	~ +85 ⁰ C	

*Including temperature rise in applying electrical current

4.PERFORMANCE :

4-1 Electrical Performance

	Item Test Condition		Requirement
4-1-1	Contact Resistance	Test Current: 10 mA Max. Test Voltage: 20mV Max Test Method:EIA-364-06B	30 mΩ MAX.
4-1-2	Insulation Resistance	Test Voltage: 100V DC. Test Duration: 1 minutes. Test Method: EIA-364-21C	500 MΩ Min.
4-1-3	Dielectric Strength	Test Voltage: 500 V AC. Test Time: 60 sec. Test Method: EIA-364-20B	No Breakdown

4-2 Mechanical Performance

	Item	Test Condition	Requirement		
4-2-1	Insertion Force And Withdrawal Force		0.15kgf/per Withdrawal	nsertion Force: .15kgf/per(MAX.) Vithdrawal Force: .095kgf/per(MIN.)	
4-2-2	Terminal / Housing Retention Force	Test Speed: 25mm/min.	0.3kgf	(Min)	
		The contacts of connector shall be subject to	Contact R	esistance	
4-2-3	Durability	30 cycles of mating and unmating. Test Method: EIA-364-09C	Initial Value	\leq 30 m Ω	
			Final Value	\leq 40 m Ω	

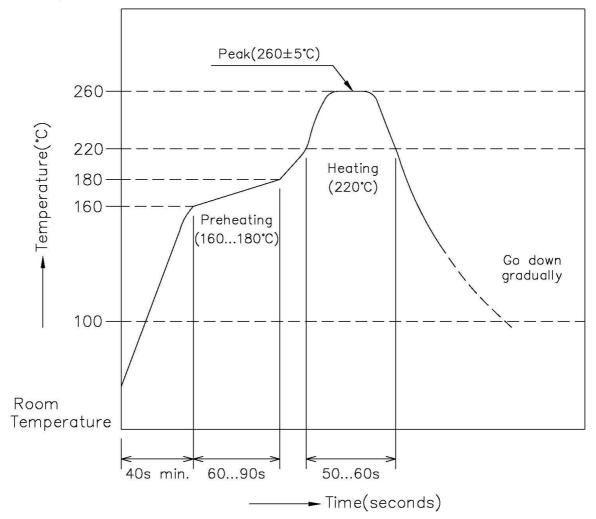
4-3 Environmental Performance and Others

	Item	Test Condition	Require	ment
		Amplitude : 1.5 mm Frequency range: 10~55~10 Hz in 1 minute	Appearance	No Damage
4-3-1	Vibration	Duration: 2 hours in each X.Y.Z axes Current: 100mA. Test Method: EIA-364-28D	Contact Resistance	\leq 40 m Ω
			Discontinuity	1µsec
4-3-2	Heat	Temperature: 85±3℃ Duration: 96 hours	Appearance	No Damage
+ 0 2	Resistance		Contact Resistance	\leq 40 m Ω
4-3-3	Cold	Temperature: -40±2°C Duration: 96 hours	Appearance	No Damage
- -0-0	Resistance		Contact Resistance	\leq 40 m Ω
		Temperature: 40±2℃ Relative Humidity: 90~95%	Appearance	No Damage
4-3-4	Humidity	Duration: 96 hours Test Method: EIA-364-31B	Contact Resistance	\leq 40 m Ω
	Turniaity		Insulation Resistance	\geq 500MQ
			Dielectric Strength	Must meet 4-1-3
4-3-5	Solder Ability	Soldering Time : 3±0.5 sec Solder Temperature : 245±5°C Test Method: EIA-364-52	Solder Wetting	95% Of Immersed Area Must Show No Voids, Pin Holes

	Item	Test Condition	on	Requi	rement
4-3-6	Resistance To Soldering Heat	Soldering Time : 10±0.5 sec Solder Temperature : 260±5℃ Test Method: EIA-364-56C	Appearance	No Damage	
		Steam Aging Temperature : 98 Duration: 8 hours Solder Temperature : 245±5°C	±2°C	Appearance	No Damage
4-3-7	Steam Aging	Soldering Time : 3±0.5 sec Test Method: EIA-364-17B		Solder Wetting	95% Of Immersed Area Must Show No Voids, Pin Holes
4-3-8	Temperature	5 cycles of : a) - 40 ±3℃ b) +25 ±3℃ c)+ 85 ±2℃		Appearance	No Damage
4-3-0	Cycling	Test Method: EIA-364-31B		Contact Resistance	\leq 40 m Ω

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 $260\pm5^{\circ}$ C peak shall be 10 seconds maximum.



Wire To Board Handling Precautions

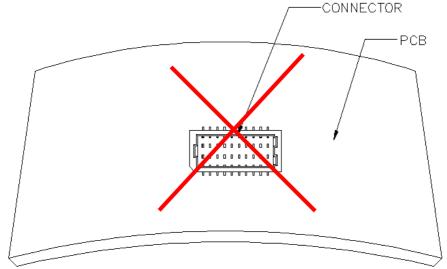
This manual is to describe basic precautions. When there are doubtful points in use of, please contact E&T.

1. Common Handling Precautions

- Do not expose E&T's wire to board connector, processing process product and processing product to corrosive substance, corrosive gas, high temperature and high humidity and direct sunshine. It causes corrosion of contact and deterioration of insulation performance of housing, etc., so that it causes motion defect of appliances.
- Do not apply external load to E&T's wire to board connector, processing process product and processing product . Deformation and breakage, etc. occur, and it causes performance defect of.
- There may be slight differences in the housing coloring, but there will be no influence on the product's performance.
- Please do not conduct any "washing process" on the connector because it may damage the product's function.
- E&T's wire to board connector is not designed for the mating and unmating of the connectors to be performed under the condition of an active electrical circuit. It may cause a spark and product defect if the connectors are mated and unmated in this way.

2. PC Board Precautions

- Exercise caution when handling boards with the connectors installed. Do not apply any forces affecting soldered joints. (see figure 1).
- The mounting specification for coplanarity does not include the influence of warpage of the printed circuit board. (see figure 1).
- Changing recommended pattern causes problems.





3. Precautions Crimped Terminal Insertion

- Terminal must be inserted horizontally oriented (see figure 2).
- Do not attempt to insert crimped terminal in any other direction. (see figure 2).

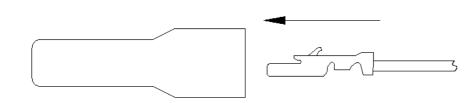
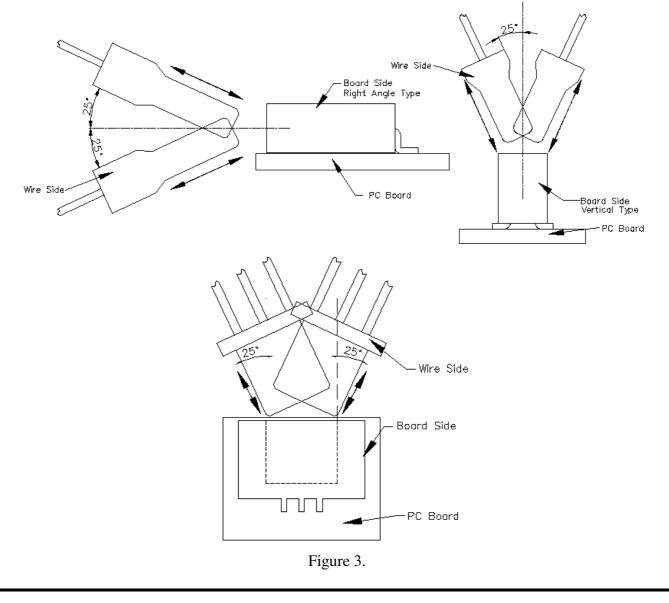


Figure 2.

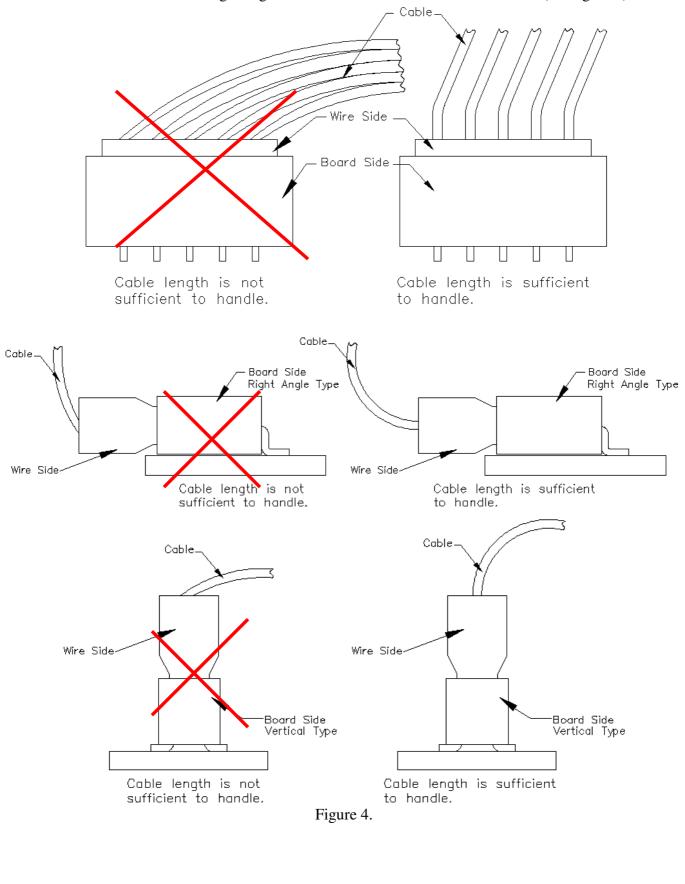
4. Precautions When Inserting or Withdrawal Wire To Board

- Do not insert and remove at an angle of 25° or greater. Doing so will cause contact deformation or case damage. (see figure 3).
- Push the wire side connector until firmly closed. At this time, confirm that the wire side connector is mated securely.
- When mounting of connectors, its slant or aberration shall be 3° max.
- Do not insert and remove the connectors when the board side connector is not mounted on the PC board.
- Used Lock type, when removed to connectors, please released positive locks.



5. Precautions Cable Assembly

• The cable assembly should not have a constant stress or pulling force applied on it when it is in the mated condition. Therefore, when designing the wire positioning, please ensure that there is enough length of wire to avoid stress on the connector. (see figure 4).



RELEASE HISTORY

Rev.	Revisions	Date	Executor	Description
A2	RE201110012	OCT-21-2011	KAZ	ADD Handling Precautions
	RE201111028			Cancel Packaging Spec
A3	RE201209003	SEP-13-2012	JIMMY	lot number intergration