SPECIFICATION FOR APPROVAL

DESCRIPTION: Pitch 1.80mm Wire	e To Board Connector, R/A ,SMT Type , Header	
CUSTOMER PROD.NO/DWG.NO:		
E&T PROD.NO:	4270K-X02N-00,20X	
APPROVAL SHEET NO:		
E&T DWG. NO./DOCUMENT:	4270K-X02N-00,20X	
		DEW , Λ1

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 1.80mm Wire To Board Connector, R/A,SMT Type Header

Revised Juno Chen Title: Pitch 1.80mm Wire To Board Connector, R/A,SMT Type,Header				A,SMT Type,Header	
A1	2011/10/18	This Document Contains Information That Is Proprietary To			
Rev	Description	E&T And Should Not Be Used Without Written Permission			
Document No.			Prepared By: Juno Chen,	Date: 01,25'2010	
4270K-X02N-00,20X		00.20X	Checked By:	Date: , 0. 18 7011	
	-, old inomit	00,2011	Approved By:	Date:	

GROUP AND TEST SEQUENCE

	Tost of Evamination				,	Test	Gr	oup)			
	Test of Examination		В	C	D	Е	F	G	Н	Ι	J	K
1	Examination of Product	1,9	1,6	1,5	1,5	1,5	1,3	1,3	1,3	1,5	1,5	
2	Contact Resistance	2,6	2,5	2,4	2,4	2,4				2,4	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	Salt Spray									3		
16	Temperature Cycling										3	

PRODUCT SPECIFICATION

1. SCOPE:

This specification covers the 1.8 mm pitch Wire To Board Connector, R/A,SMT Type series.

2. PRODUCT NAME AND PART NUMBER:

Product Name	E&T Part Number
0.80mm Wire To Board Connector, R/A,SMT Type,Header	4270K-X02N-00,20X

3. RATINGS:

Item	Standard	
Rated Voltage (MAX.)	350 V (Note2)	AC/DC
Rated Current (MAX.)	3.2A (AWG #26)	AC/DC
Ambient Temperature Range	-25°C ~ +85°C (Note1)	

Note1:Including temperature rise in applying electrical current

Note2: Clearance between the connector and other metallic parts shall be longer than the length of the circuit pitch.

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: MIL-STD-202F, Method 303	10 mΩ MAX.
4-1-2	Insulation	Test Voltage: 500V DC. Test Duration: 1 minutes.	Initial: 1000 MΩ Min.
7-1-2	Resistance	Test Method: MIL-STD-202, method 302	Final: 500 MΩ Min.
4-1-3	Dielectric Strength	Test Voltage: 1700 V AC. Test Time: 60 sec. Test Method: MIL-STD-202, Method 301.	No Breakdown

4-2 Mechanical Performance

	Item	Test Condition	Requirement			
	Test Speed: 25±3 mm/min. Test Method: MIL-STD-1344A,		At init	ial	At 30 th	
4-2-1	Insertion Force And Withdrawal Force	Method 2016.	I.F.	W.F.	W.F.	
			2.04kgf Max	0.51kgf min.	0.204kgf min.	
4-2-2	Terminal / Housing Retention Force	Test Speed: 25mm/min.	0	.3kgf (Min)		

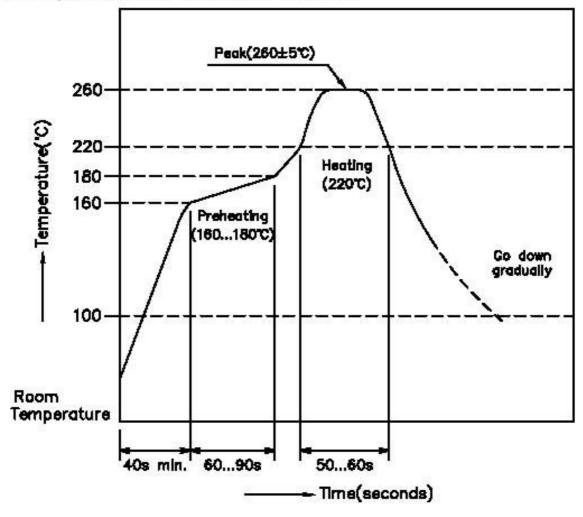
4-3 Environmental Performance and Others

	Item	Test Condition	Require	ment
		The contacts of connector shall be subject to 30 cycles of mating and unmating.	Contact Re	sistance
4-3-1	Durability	Housang lock shall be removed before the test)	Initial Value	\leq 10 m Ω
	(Housong lock shall be removed before the test.)		Final Value	\leq 20 m Ω
	Amplitude: 1.5 mm Frequency range: 10~55~10 Hz in 1 minute		Appearance	No Damage
4-3-2	Vibration	Duration: 2 hours in each X.Y.Z axes Current: 100mA. Test Method: MIL-STD-202F, Method 201	Contact Resistance	≤20 mΩ
		Test Method. IME 618 2021, Method 201	Discontinuity	1µsec
4-3-3	Heat	Temperature: $85\pm2^{\circ}$ C Duration: 96 hours	Appearance	No Damage
400	Resistance	Test Method: MIL-STD-202, Method 108.	Contact Resistance	\leq 20 m Ω
4-3-4	Cold	Temperature: -40±2°C Duration: 96 hours Test Method: JIS C60068-2-1	Appearance	No Damage
7-3-4	Resistance	rest Metriod. dio 000000-2-1	Contact Resistance	\leq 20 m Ω
		Temperature: 40±2°C Relative Humidity: 90~95%	Appearance	No Damage
4-3-5	Humidity	Duration: 96 hours Test Method: MIL-STD-202F , Method 103	Contact Resistance	\leq 20 m Ω
	riamany		Insulation Resistance	≥500MΩ
			Dielectric Strength	Must meet 4-1-3
4-3-6	Solder Ability	Soldering Time : 3 ± 0.5 sec Solder Temperature : $245\pm5^{\circ}$ C Test Method: MIL-STD-202F , Method 208	Solder Wetting	95% Of Immersed Area Must Show No Voids, Pin Holes

	Item	Test Condition	Requi	rement
4-3-7	Resistance To Soldering Heat	Soldering Time : 10 ± 0.5 sec Solder Temperature : $260\pm5^{\circ}$ C	Appearance	No Damage
		Steam Aging Temperature : $98\pm2^{\circ}$ C Duration: 8 hours Solder Temperature : $245\pm5^{\circ}$ C	Appearance	No Damage
4-3-8	Steam Aging	Soldering Time: 3±0.5 sec Test Method: MIL-STD-202F, Method 208	Solder Wetting	95% Of Immersed Area Must Show No Voids, Pin Holes
4-3-9	Temperature	5 cycles of : a) - 40 $\pm 3^{\circ}$ C 30 minutes b) +25 $\pm 3^{\circ}$ C 30 minutes	Appearance	No Damage
4-0-9	Cycling	c)+ 85 $\pm 2^{\circ}$ C 30 minutes Test Method: JIS C0025	Contact Resistance	\leq 20 m Ω

INFRARED REFLOW CONDITION (LEAD FREE)

- 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.



包裝作業規範 PACKAGING SPECIFIC ATINN

規範編號: SPEC.NO: SP-P002

SPEC,NO:		
包裝	材料 PACKENGMATERAIL	
材料名稱 NAME	料號 PART NO.	Q" TY
紙箱	4002-26501-000	1
天地板	4002-06502-000	2
三角板	4002-06503-000	4
CARRIER	3203-10001-XX0	21 米
COVER	3200-00010-XX0	21 米
LOCKREEL	3200-00020-XX0	1H
乾燥劑	3600-00000-000	1
海棉	3715-05505-010	4
標示單	3810-00908-010	1
防水袋	3909-04023-110	1

包裝容量 PACKING CAPACITY						
產品型號 PRODUCTNO PCS/PLASTIC BAG REEL / BOX PCS / BOX						
4270K-X02N-00,20X	1R= XXXXPCS	1箱 = XXR	XXXX 箱			

重量 WEIGHT						
N.W./ PCS	N.W. / BOX	G.W. / BOX				

Lock Reel & cover TAPE 寬度表

PIN 數	寬度(mm)	小箱	中箱	大箱

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.

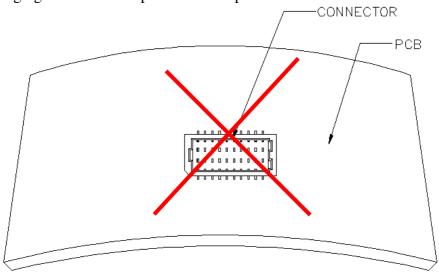


Figure 1.

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).

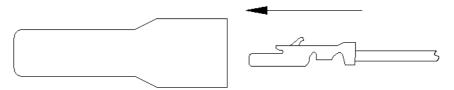
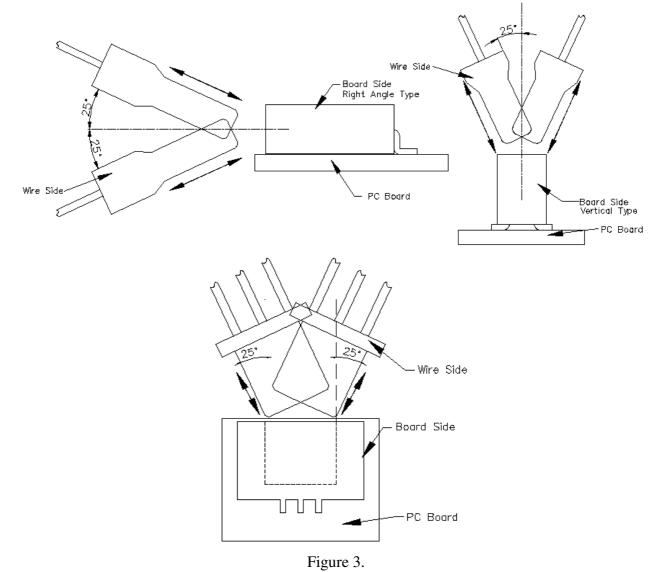


Figure 2.

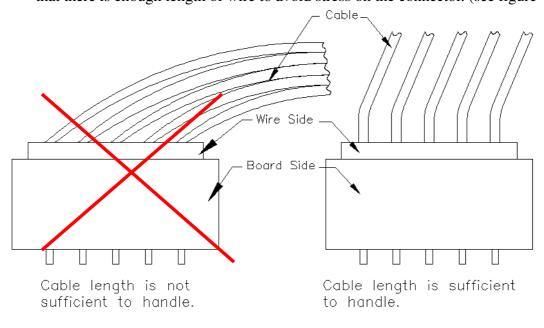
4. Precautions When Inserting or Withdrawal Wire To Board

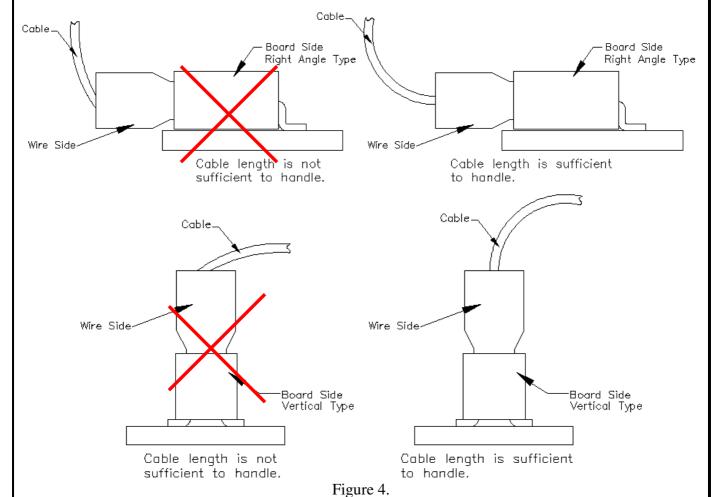
- Do not insert and remove at an angle of 25° or greater. Doing so will cause contact deformation or case damage. (see figure 3).
- Push the wire side connector until firmly closed. At this time, confirm that the wire side connector is mated securely.
- When mounting of connectors, its slant or aberration 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
A1	RE 201109017	Oct 19 2011	Oct-18-2011 Juno -	Add New Type
	RE 201110012	OCI-10-2011		Add Handling Precautions.