

# **Product Change Notification**

## **TE Connectivity**

Product Change Notification: P-21-021569 PCN Date: 08-OCT-21

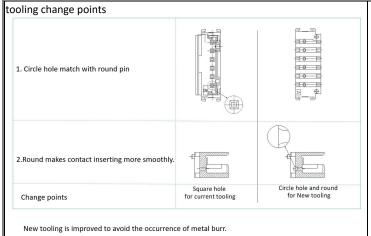
TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

#### **General Product Description:**

CT POST HEADER SMT BOX TYPE ASSY CONNECTOR

#### Description of Changes

Manufacturing location change. 1.New manufacturing location(Shenzhen Guangdong) will be added for following parts. 2.New tooling will be used at the new manufacturing location, We will change pin hole from square to round on new tooling which is a best-practice in use on other parts.



#### Other attachments:

test report

#### Reason for Changes:

Dear Customer, as a result of our continuous strive for improving our processes, we hereby inform you about new manufacturing location. The new manufacturing location is under a certified quality management system according the standard industry requirements. An internal release based on our specifications will be executed before any parts will be delivered, which guarantees the performance.

#### Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	01-NOV-2021
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	No Mixed Shipments

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1-292173-2	NO						
<u>1-292173-4</u>	NO						
<u>1-292173-5</u>	NO						
<u>2-292173-2</u>	NO						
<u>2-292173-3</u>	NO						
2-292173-4	NO						
<u>2-292173-5</u>	NO						
<u>2-292173-6</u>	NO						
<u>2-292173-8</u>	NO						
<u>2-292175-2</u>	NO						
<u> 292173-2</u>	NO						
<u> 292173-3</u>	NO						
<u> 292173-4</u>	NO						

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u> 292173-5</u>	NO						
<u> 292173-6</u>	NO						
<u> 292173-7</u>	NO						
<u> 292173-8</u>	NO						
<u> 292174-2</u>	NO						
<u> 292174-3</u>	NO						
<u> 292174-4</u>	NO						
<u> 292174-5</u>	NO						
<u> 292174-6</u>	NO						
<u>292174-8</u>	NO						
<u>292175-2</u>	NO						
<u>292175-3</u>	NO						
<u> 292175-4</u>	NO						
<u> 292175-5</u>	NO						
<u> 292175-6</u>	NO						
<u> 292175-7</u>	NO						
<u>292175-8</u>	NO						
<u>3-292173-2</u>	NO						
<u>3-292173-3</u>	NO			"1000923-F"			
<u>3-292173-4</u>	NO			"1000919-F"		·	

## Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u> 292175-2</u>	NO						
3-292173- 2	NO						
3-292173- 3	NO			"1000923-F"			
3-292173- 4	NO			"1000919-F"			

	r(s) being Modified:	•	1	_	_		T
Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>1-292173-</u> <u>4</u>	NO						
2-292173- 5	NO						
<u>292173-6</u>	NO						
<u> 292173-7</u>	NO						
<u>292174-8</u>	NO						
<u>292175-2</u>	NO						
<u>292175-3</u>	NO						
<u>292175-4</u>	NO						
<u>292175-6</u>	NO						
<u> 292175-7</u>	NO						
<u>292175-8</u>	NO						
<u>3-292173-</u> <u>2</u>	NO						
<u>3-292173-</u> <u>3</u>	NO			"1000923-F"			
<u>3-292173-</u> <u>4</u>	NO			"1000919-F"			

## Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>1-292173-</u> <u>4</u>	NO						
<u>2-292173-</u> <u>5</u>	NO						
<u>292173-6</u>	NO						
<u>292173-7</u>	NO						
<u>292174-8</u>	NO						
<u>292175-2</u>	NO						
<u>292175-3</u>	NO						
<u> 292175-4</u>	NO						
<u> 292175-6</u>	NO						
<u> 292175-7</u>	NO						
<u>292175-8</u>	NO						
3-292173- <u>2</u>	NO						
<u>3-292173-</u> <u>3</u>	NO			"1000923-F"			
<u>3-292173-</u> <u>4</u>	NO			"1000919-F"			

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
	pei PCN	Diawing	Number	Nulliber(5)	Number	Number(s)	Difference
<u>1-292173-</u> <u>2</u>	NO						
<u>1-292173-</u> <u>4</u>	NO						
<u>1-292173-</u> <u>5</u>	NO						
<u>2-292173-</u> <u>2</u>	NO						
<u>2-292173-</u> <u>3</u>	NO						
<u>2-292173-</u> 4	NO						
<u>2-292173-</u> <u>5</u>	NO						
<u>2-292173-</u> 6	NO						
<u>2-292173-</u> 8	NO						
2-292175- 2	NO						
292173-2	NO						
292173-3	NO						
292173-4	NO						
292173-5	NO						
292173-7	NO						
292173-8	NO						
292174-2	NO						
292174-3	NO						
292174-4	NO						
292174-5	NO						
292174-6	NO						
292175-2	NO						

Part	Part Discontinued	Customer	Customer Part	Alias Part	Substitute Part	Substitute Alias Part	Description Of
Number	per PCN	Drawing	Number	Number(s)	Number	Number(s)	Difference
<u>292175-3</u>	NO						
<u> 292175-5</u>	NO						
<u> 292175-6</u>	NO						
<u>292175-7</u>	NO						
<u> 292175-8</u>	NO						
3-292173- 2	NO						

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>3-292173-</u> <u>2</u>	NO						
3-292173- <u>3</u>	NO			"1000923-F"			
<u>3-292173-</u> 4	NO			"1000919-F"			



# AMP Common Termination(CT)Connector 2.0mm Pitch (M/T Type)

#### 1. Purpose:

This is qualification test. The purpose of this test is to evaluate the performance of 2.0mm pitch CT Connector (M/T Type) with new location.

Testing was performed on 2.0mm pitch CT Connector (M/T Type) with new location. Connector to determine it compliance with the requirements of Spec 108-60016.

#### 2. Scope:

This report covers the electrical, mechanical and environmental performance of DIP TYPE Mini CT Connector with new housing material PA10T.

Testing was performed at Shanghai Electrical Components Test Laboratory between Jul 01, 21 and Sep 29, 21.

#### 3. Conclusion:

The product met the electrical, mechanical, and environmental performance requirements of TE product specification 108-60016.

#### 4. Test samples:

Samples were taken randomly from current production. The following part numbers were used for test:

Description	Product Part No.
Rec Ass'y 9P #26 #28Type	2-173977-9
Post HDR Ass'y V 9P	292175-9

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#### 5. Test Contents

No.	Test Items	Requirements	Judgement
A-1	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable
A-2	Insulation Resistance	In accordance with EIA-364-21C. 1000 MΩ min. Initial. Mated connectors; Apply a voltage of DC 500V, for 2 minute.	Acceptable
A-3	Dielectric Withstanding Voltage	In accordance with EIA-364-20B. 1000VAC (60 Seconds) between two adjacent contacts .No evidence of Breakdown and flashover nor leakage current exceeds 5mA	Acceptable
A-4	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
A-5	Humidity, Steady State	In accordance with MIL-STD-202, Method 103 Condition B. Subject mated samples to steady state humidity at 40°C and 90~95%RH for 96 hours. No damage.	Acceptable
A-6	Insulation Resistance	In accordance with EIA-364-21C. 1000 MΩ min. Initial. Mated connectors; Apply a voltage of DC 500V, for 2 minute.	Acceptable
A-7	Dielectric Withstanding Voltage	In accordance with EIA-364-20B.  1000VAC (60 Seconds) between two adjacent contacts .No evidence of Breakdown and flashover nor leakage current exceeds 5mA	Acceptable
A-8	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
B-1	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable
B-2	Temperature rise vs current	In accordance with EIA-364-70, Method I Current: 2A (#26AWG/1A (#28AWG) Connecting Type: All pins are connected in series. Monitoring point: The soldering point of middle pin of Connecting pins of single connector. 30℃ maximum temperature rise at rated current.	Acceptable
B-3	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable

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No.	Test Items	Requirements	Judgement
C-1	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
C-2	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $10m\Omega\ \ \text{Max}.$	Acceptable
C-3	Vibration	In accordance with EIA-364-28D, Test Condition VII/Method 2005.1, test condition I of MILSTD-1344A Frequency: 10-55-10Hz, Amplitude: 1.52mm, Duration: 2hrs/axis (3 axis, 6 hrs total). Electrical discontinuity less than 1µs, No damage.	Acceptable
C-4	Mechanical Shock	In accordance with EIA-364-27, Condition H. Peak Value:50G Duration: 11mSec. Waveform: Half Sine No. of Shocks/Direction: 3 shocks/3 axes (18 total). Electrical discontinuity less than 1µs, No damage.	Acceptable
C-5	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $20m \Omega$ Max, $\triangle \le 10m\Omega$	Acceptable
C-6	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable
D-1	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
D-2	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $10m\Omega$ Max.	Acceptable
D-3	Insertion Force	In accordance with EIA-364-13B / Method 2013.1 of MIL-STD-1344A 63.7 N, at a rate of 25.4mm a minute.	Acceptable
D-4	Withdrawal Force	In accordance with EIA-364-13B 9.8 N, at a rate of 25.4mm a minute.	Acceptable
D-5	Durability	In accordance with EIA-364-09C / Method 2016 of MIL-STD-1344A.) 30 times Min.(Sn),at a rate of 25.4mm a minute. No physical damage in visual.	Acceptable
D-6	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $20m \Omega$ Max, $\triangle \le 10m\Omega$	Acceptable
D-7	Humidity- Temperature Cycling	In accordance with EIA-364-31B, Method IV Subject mated samples to temperature change between 25°C and 65°C with 95%RH for 5cycles. No damage.	1
D-8	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $20m\Omega$ Max, $\Delta\leq10m\Omega$	1
<b>D-9</b>	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	1

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	onnectivity	TEST REPORT	501 000
No.	Test Items	Requirements	Judgement
E-1	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
E-2	Contact Retention Force(Male)	In accordance with EIA-364-98. 9.8N Min. /per contact(before soldering)	Acceptable
E-3	Tail Retention Force	In accordance with EIA-364-13B 4.9N Min. /per tail(before soldering)	Acceptable
F-1	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable
F-2	Solderability	In accordance with EIA-364-52A / Method 208F of MIL-STD-202F Temperature: $245 \pm 5$ °C, the dipping time: $5 \pm 0.5$ seconds. Solder Coverage >95%	Acceptable
F-3	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
G-1	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
G-2	Resistance to soldering heat	In accordance with EIA-364-56 208F of MIL-STD-202F SMT: 260°C,30s. No damages on Sample under hot temperature, no deformation and melting on insulator.	Acceptable
G-3	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
H-1	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable
H-2	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $10 \mathrm{m}\Omega$ Max.	Acceptable
Н-3	Thermal shock	In accordance with EIA-364-32C / Method 107G, test condition A of MIL-STD-202F Subject mated samples to 5 cycles between -55 and 85 +3/-0°C with 30 minutes dwell at temperature extremes.  No damage.	Acceptable
H-4	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $20m\Omega$ Max, $\triangle \le 10m\Omega$	Acceptable
H-5	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable

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No.	Test Items	Requirements	Judgement
J-1	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
J-2	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A 10m Ω Max.	Acceptable
J-3	Humidity, Steady State	In accordance with MIL-STD-202, Method 103 Condition B. Subject mated samples to steady state humidity at 40°C and 90~95%RH for 96 hours. No damage.	Acceptable
J-4	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $20m\Omega$ Max, $\triangle \le 10m\Omega$	Acceptable
J-5	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
K-1	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable
K-2	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A 10m Ω Max.	Acceptable
K-3	Temperature life	In accordance with EIA-364-17, Method A, condition 4 / Method 1005.1, test condition 3 of MIL-STD-1344A Subject mated samples to 85±2°C for 96 hours. No damage.	Acceptable
K-4	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $20m\Omega$ Max, $\triangle \le 10m\Omega$	Acceptable
K-5	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable
L-1	Examination of Product	In accordance with EIA-364-18. No physical damage in examination of product	Acceptable
L-2	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $10 \mathrm{m}\Omega$ Max.	Acceptable
L-3	Salt Spray	In accordance with EIA-364-26 / Method 101D,test condition B of MIL-STD-202F Subject samples to 5±1% salt spray at 35°C for 48 hours. No oxidation and black on the plating layer of contact area of pins after test. Erode meet class 4.	Acceptable
L-4	Contact Resistance	In accordance with EIA-364-23 / Method 3002.1 of MIL-STD-1344A $20 \text{m} \Omega$ Max, $\triangle \le 10 \text{m} \Omega$	Acceptable
L -5	Examination of Product	In accordance with EIA-364-18.  No physical damage in examination of product	Acceptable

Fig. 1 (End)

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## Product Qualification Test Sequence

(a)

Test or Examination	Α	В	С	Е	F	G	Н	J	K	L
Examination of Product	1,4, 8	1,3	1,6	1	1,3	1,3	1,5	1,5	1,5	1,5
Contact Resistance(Low Level)			2,5				2,4	2,4	2,4	2,4
Insulation Resistance	2,6									
Dielectric Withstanding Voltage	3,7									
Contact Retention Force(Male)				2						
Tail Retention Force				3						
Insertion Force										
Withdrawal Force										
Durability										
Vibration			3							
Mechanical Shock			4							
Salt Spray										3
Humidity-Temperat ure Cycling										
Humidity,Steady State	5							3		
Thermal shock							3			
Temperature life									3	
Resistance to Cold										
Solderability					2					
Soldering heat						2				
Temperature rise vs current		2								
Sample QTY	3	3	3	3	3	3	3	3	3	3
Test Result	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass

Numbers indicate sequence in which the tests are performed.

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#### 3. The Result of Evaluation Testing

#### 3.1 Humidity, Steady State

Subject mated samples to steady state humidity at 40 ℃ and 90~95%RH for 96 hours.

#### Examination of Product

No physical damage in examination of product, initially environmental testing.

#### Insultion Resistance

Apply test potential of 500V DC for 2 minute to test samples.

As a result of testing, all the samples with stood test potential of 1,000 M $\Omega$  MIN between the contact, initially environmental testing.

#### Dielectric strength

Apply test potential of 1,000V AC for 1 minute to the test samples.

As a result of testing, all the samples withstood test potential of 1,000V AC for 1 minute, Initially environmental testing, without flashover and dielectric break-down, and leakage current didn't exceed 5mA, meeting the requirement.

#### 3.2 Temperature rise vs current

Measure the Temperature rise result by applying rated current to the test circuit.(specified current 2A:#26,1A:#28).

#### Temperature rise vs current

Unit: °C

Test Condition		Tempera	ature rise	vs curre	ent		Spec.	Judgement
	N	POSITION	MAX	MIN	AVG	STD	limit (MAX)	
	3	Male side	5.6	5.3	5.5	0.14	30°C	Acceptable
1.0 A(#28)	3	Housing surface	4.6	4.1	4.4	0.24	30°C	Acceptable
	3	Female side	6.2	5.7	6.0	0.24	30°C	Acceptable
	3	Male side	13.7	13.2	13.4	0.23	30°C	Acceptable
2.0 A(#26)	3	Housing surface	10.8	10.5	10.6	0.14	30°C	Acceptable
	3	Female side	13.6	13.2	13.4	0.19	30°C	Acceptable

#### **Examination of Product**

No physical damage in examination of product, initially and after temperature rise vs current testing.

#### 3.3 Vibration Test

Frequency: 10-55-10Hz, Amplitude: 1.52mm, Duration: 2hrs/axis (3 axis, 6 hrs total). Electrical discontinuity less than 1µs.

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#### 3.4 Mechanical Shock

Apply mechanical shock of 50G in 11 millisecond with waveform of Half Sine duration to the normal and reversed direction of three mutual axes(X,Y,Z) of the sample product for three drops each, totally 18 drops. Electrical discontinuity less than 1µs.

#### Electrical discontinuity

Electrical discontinuity less than 1µs after vibration test.

Electrical discontinuity less than 1µs after mechanical shock.

**Examination of Product** 

No physical damage in examination of product, initially and after vibration testing/mechanical shock testing.

#### Contact Resistance

Contact Resista	nce		Unite: mΩ				
Test Condition		Cont	act Res	sistance		Spec. limit	Judgement
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	27	6.46	6.06	6.29	0.11	10	Acceptable
Final	27	6.91	6.26	6.56	0.19	20	Acceptable

#### 3.5 Durability (Sn)

Fasten connector halves on mechanical operation tester and by operating the head at a rate of 25.4mm a minute for 30 cycles.

Unit: N

#### Contact Resistance

Contact Resista	nce			Unite: mΩ			
Test Condition		Conta	act Res	sistance	)	Spec. limit	Judgement
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	27	6.49	6.01	6.33	0.13	10	Acceptable
Final	27	6.62	6.15	6.39	0.18	20	Acceptable

#### Connector Insertion Force

CONTICCTOR INSC	IIIOII	1 0100	Offic. IV				
Test Condition		Connec	tor Inse	rtion Fo	rce	Spec. limit	Judgement
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	3	23.44	22.66	22.94	0.24	63.7	Acceptable

#### Connector Withdrawal Force

Connector With	drav	val Forc	Unit: N				
Test Condition	(	Connect	or Withd	rawal Fo	orce	Spec. limit	Judgement
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	3	19.44	18.76	19.13	0.21	9.8	Acceptable

#### 3.6 Contact Retention Force(Male/per contact/before soldering) Unit: N

Test Condition		Contact	Retention	n Force	Spec. limit	Judgement	
	N	MAX	MIN	AVG	(Min)		
Initial	15	26.15	24.51	25.21	0.58	9.8	Acceptable

#### 3.7 Tail Retention Force(Male/per contact/before soldering) Unit: N

Test Condition		Tai	il Retentior	n Force	Spec. limit	Judgement	
	N	MAX	MIN	AVG	STD	(Min)	
Initial	15	36.11	32.90	34.60	0.92	4.9	Acceptable

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#### 3.8 Solderability

Subject contacts to solderability testing as specified solder temperature:245±5°C time:5±0.5 seconds.

#### **Examination of Product**

More than 95% of tested area was covered with fresh wet solder.

#### 3.9 Resistance to soldering heat (SMT type)

Subject samples mounted on PCB at 260±5°C for 30±1 seconds (measure at housing surface).

#### **Examination of Product**

Test samples showed no evidense of effects such as deformation, melting etc, that are detrimental to connector function.

Unite: m0

#### 3.10 Thermal shock

Subject mated samples to 5 cycles between -55 and 85 +3/-0°C with 30 minutes dwell at temperature extremes.

#### **Examination of Product**

No physical damage in examination of product, initially environmental testing.

#### Contact Resistance

Test Condition		Conta	act Res	sistance	Spec. limit	Judgement	
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	27	6.47	6.05	6.25	0.16	10	Acceptable
Final	27	6.63	6.17	6.39	0.17	20	Acceptable

## 3.11 Humidity, Steady State

Subject mated samples to steady state humidity at 40°C and 90~95%RH for 96 hours.

#### Examination of Product

No physical damage in examination of product, initially environmental testing.

#### Contact Resistance Unite: mΩ

Test Condition		Conta	act Res	istance	Spec. limit	Judgement	
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	27	6.42	5.98	6.27	0.19	10	Acceptable
Final	27	6.69	6.11	6.42	0.18	20	Acceptable

#### 3.12 Tenperature Life

Subject mated samples to 85±2°C for 96 hours.

#### **Examination of Product**

No physical damage in examination of product, initially environmental testing.

#### Contact Resistance

Contact Resistar	nce		Unite: mΩ				
Test Condition		Conta	act Res	sistance	Spec. limit	Judgement	
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	27	6.39	5.93	6.20	0.13	10	Acceptable
Final	27	6.89	6.21	6.58	0.24	20	Acceptable

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## 3.13 Salt Spray

Subject samples to  $5\pm1\%$  salt spray at  $35^{\circ}\text{C}$  for 48 hours.

#### **Examination of Product**

There are not oxidation on the plating layer of contact area of pins after testing. Erode meet class 4.

Contact Resistar	nce		Unite: mΩ				
Test Condition		Conta	act Res	sistance	Spec. limit	Judgement	
	N	MAX	MIN	AVG	STD	(MAX)	
Initial	27	6.46	6.10	6.31	0.09	10	Acceptable
Final	27	6.95	6.27	6.74	0.20	20	Acceptable

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