



# Product Change Notification

## TE Connectivity

Product Change Notification: P-23-024296

PCN Date: 21-MAR-23

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:**  
CMC 64P 2050008 Family seal

**Description of Changes**  
Due to supply demand, 2050008 Family Seal dual source material  
**Other attachments:**  
[PV TEST](#)  
[CMC 64P MATERIAL](#)

**Reason for Changes:**  
Document clarification.The long purchase cycle of raw materials leads to a shortage of materials in production. In order to avoid the shortage of supply, a new material has been added. The new material has passed the PV test and meets the functional requirements.  
**Estimated Dates:**

<b>Last Order Date</b> (Obsolete Parts Only):	<b>First Date To Ship</b> (Changed Parts Only):
	21-JUN-2023
<b>Last Ship Date</b> (Obsolete Parts Only):	<b>Last Date for Mixed Shipments:</b> (Changed Parts Only):
	No Mixed Shipments

**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
<a href="#">2050036-1</a>	NO						

**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
<a href="#">2050036-1</a>	NO						



# TEST REPORT

**Product Description:** PACKAGE COMPONENTS LIST  
64POS.MIXED REC.HOUSING

**P/N:** 2050036-1

**Test Type:** Support Plant

**Requested By:** Jay Han

**Customer Information:** General

**Released Date:** 2023/2/2

Prepared By	Checked By	Approved By
Nicole Deng	Iron Zhu	Robert Mas (Manager)



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### Test Results Overview

Group	Sequence	Test Item	Sample Qty	Results
Group 1: Thermal shock	1,5	Visual Examination	5	✓
	2,4	Pressure/Vacuum Leak	5	✓
	3	Thermal shock	5	△
Group 2: Humidity Steady State	1,5	Visual Examination	5	✓
	2,4	Pressure/Vacuum Leak	5	✓
	3	Humidity Steady State	5	△

**Conclusion: Passed**

**Remark.** 1.2.3... in blank means test sequence, ✓ – passed / X – failed / – – not performed / △ – Reference & Value determination.

## 1. General Information

### 1.1. Test Purpose

The purpose of test is to confirm the performance of PACKAGE COMPONENTS LIST 64POS.MIXED REC.HOUSING.

### 1.2. Test Specifications& Standards

108-101130 Rev. B and test plan P22-904070-13, Rev. A

### 1.3. Test Sample Information

The following product model numbers have been validated through testing or analysis.

The requester is accountable for the correctness of the sample list.

Part Number	Rev.	Description	Sample Qty	Material	Wire Cross	Production Date	Remark
2050036-1	A	64P ECU PLUG CONNECTOR	20	ASSY	-	2021/10/12	-
638652-2	B	RECEPT,1.5MM,TIN 18-20AWG RD=1	320	CuNiSi	-	2021/10/4	-
968221-1	C	MQS0,63 Sn rec CB unseal. 0,5-0,75	2240	CuNiSi	-	2021/10/4	-
2377247-1	A	CMC 112WAY HEADER ASSEMBLY	20	ASSY	-	2021/10/4	-
2050008-1	C2	FAMILY SEAL FOR 64P MQS CONNECTOR(DUAL SOURCE STUDY)	20	MF9425/30	-	2022/7/9	-



Figure 1 Mated connector, 64 pos



#### 1.4. Test Equipment List

Equipment Name	Model No.	Lab Equipment No.	Calibration Due Date
Air tightness test equipment	/	SZE2-019	2023/11/22
Thermal Shock Chamber	ESPEC TSD-101-W	SZE0-005	2023/05/09
Rapid temperature change test chamber	ESPEC GFS-800-10	SZE0-045	2023/05/31

#### 1.5. Additional Information

**1.5.1. Customer special requirements:**

N/A

**1.5.2. Tested Period:** 2022/11/21 to 2022/12/15

**1.5.3. Environmental Condition**

Unless otherwise stated, the following environmental conditions prevailed during testing:

Temperature: 23±5°C, Relative Humidity: 30%-70%.

**1.5.4. Requestor Information:**

Name: Jay Han

Email: [Jay.han@te.com](mailto:Jay.han@te.com)

**1.5.5. Sample Received date:** 2022/10/15

## 2. Test Description

### 2.1. Group 1: Thermal shock

#### 2.1.1. Visual Inspection

**- Test Method**

Visually examine each test specimen of testing.

**- Test Specification**

108-101130 Rev. B 3.6.1

**- Acceptance Criteria**

No corrosion, discoloration, cracks, etc.

**- Test Data**

Samples	Initial	Final
S-001 ~ S-005 <sup>2)</sup>	No corrosion, discoloration, cracks	No corrosion, discoloration, cracks

Table 1 visual inspection

2) 'S' represent the sample No. of "P22-904070-13".

**- Test Result**

**Passed**

### 2.1.2. Pressure/Vacuum Leak

#### -Test Method

Insert a tube into the seal in the open cavity in each connector. Completely submerge connectors into the water. Slowly increase the air pressure of the regulated pressure source in each sample. Air pressure is 49kPa(initial) or 28kPa(after environment test) and hold for 15s. Then switch the regulated source from pressure to vacuum and slowly apply appropriate vacuum to -49kPa(initial) or -28kPa(after environment test) and hold for 15s.

#### -Test Specification

108-101130 Rev. B 3.6.18

#### -Acceptance Criteria

No water entry and no bubble

#### -Test Photo



Figure 2 Set up



Figure 3 After pressure/vacuum, final

#### -Test data

Samples	Description	
	Initial	Final
S-001	No water entry and no bubbles	No water entry and no bubbles
S-002	No water entry and no bubbles	No water entry and no bubbles
S-003	No water entry and no bubbles	No water entry and no bubbles
S-004	No water entry and no bubbles	No water entry and no bubbles
S-005	No water entry and no bubbles	No water entry and no bubbles

Table 2 Pressure/vacuum leak

#### -Test Result

**Passed**



### 2.1.3. Thermal Shock

#### -Test Method

Mated connector

-40°C/30min.

125°C/30min.

Repeat 100cycles.

#### -Test Specification

108-101130 Rev. B 3.6.15

#### -Test Photo



Figure 4 Set up

#### -Test Result

Condition



## 2.2. Group 2: Humidity Steady State

### 2.2.1. Visual Inspection

**- Test Method**

Visually examine each test specimen of testing.

**- Test Specification**

108-101130 Rev. B 3.6.1

**- Acceptance Criteria**

No corrosion, discoloration, cracks, etc.

**- Test Data**

Samples	Initial	Final
S-006 ~ S-010 <sup>2)</sup>	No corrosion, discoloration, cracks	No corrosion, discoloration, cracks

Table 3 visual inspection

2) 'S' represent the sample No. of "P22-904070-13".

**- Test Result**

**Passed**

## 2.2.2. Pressure/Vacuum Leak

### -Test Method

Insert a tube into the seal in the open cavity in each connector. Completely submerge connectors into the water. Slowly increase the air pressure of the regulated pressure source in each sample. Air pressure is 49kPa(initial) or 28kPa(after environment test) and hold for 15s. Then switch the regulated source from pressure to vacuum and slowly apply appropriate vacuum to -49kPa(initial) or -28kPa(after environment test) and hold for 15s.

### -Test Specification

108-101130 Rev. B 3.6.18

### -Acceptance Criteria

No water entry and no bubble

### -Test Photo



Figure 5 Set up



Figure 6 After pressure/vacuum, final

### -Test data

Samples	Description	
	Initial	Final
S-006	No water entry and no bubbles	No water entry and no bubbles
S-007	No water entry and no bubbles	No water entry and no bubbles
S-008	No water entry and no bubbles	No water entry and no bubbles
S-009	No water entry and no bubbles	No water entry and no bubbles
S-010	No water entry and no bubbles	No water entry and no bubbles

Table 4 Pressure/vacuum leak

### -Test Result

**Passed**

### 2.2.3. Humidity Steady State

**-Test Method**

Mated connector, 90~95%R.H.,60°C,96hours

**-Test Specification**

108-101130 Rev. B 3.6.13

**-Test Photo**

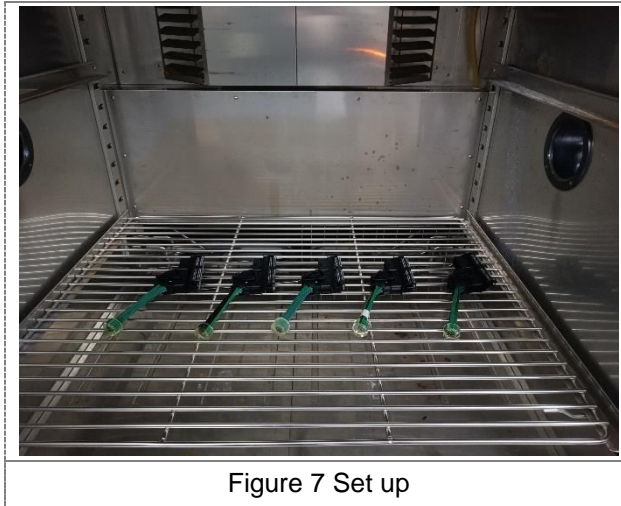


Figure 7 Set up

**-Test Result**

Condition

----- **END OF REPORT** -----



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## Document History

Rev	Date	Author	Description	Remark
A	2023/2/2	Nicole Deng	Initial Released	-

# CMC 64P Family seal dual source material

换料前 Family seal



换料后 Family seal



## Summary:

1. CMC 64P Family seal dual source, 功能测试OK, 外观稍有色差, PN字体大小有差异
2. 涉及成品料号: x-2050036-x; x-2050004-x; x-2421119-x; x-2421112-x