

# **Product Change Notification**

Current Date: 02-Feb-2023

## **TE Connectivity**

**Product Change Notification:** PCN-23-164978

PCN Date: 01-FEB-23

Customer: TTI, Inc. ( 1305175 )

**Location:** Maisach-gernlinden

Agreement: TTI001

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: (Text limited to 120 characters)

2 x 3 pos MODU IV Housing & Cover

#### **Description of Changes**

Please be aware of an upcoming material change to the listed part numbers. Before: Current PA 66 grade After: Readily available PA 66 grade

Other attachments: Validation Test Report

### Reason for Changes:

Availability issues with long lead time for current PA 66 grade. No effect on the functionality and parts with new PA 66 grade have been validated (See attached test report).

PCN Attributes:			
Product Category:	Kind of Change:		
Connectors	Material		
Change Feature:	Potential Customer Impact:		
Material Change			
Remarks:			

Estimated Dates:	
Last Order Date (Obsolete Parts Only):	First Ship Date of Changed Items (Changed Parts Only):
	03-MAR-2023
Last Ship Date of Changed Items (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	No Mixed Shipments
Effectivity Date:	Date of First Samples:

### 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
144095-2	NO		TYC144095-2				
<u>144684-1</u>	NO		TYC144684-1				

The documents listed below are being modified. Related parts that are not explicitly listed on this PCN are not being modified or discontinued as per the PCN. The Last Order Date, Last Ship Date, First Date to Ship Changed Parts and last date for Mixed Shipments apply only to parts explicitly listed on this PCN.

#### Customer Drawing(s) Being Modified:

Drawing Number	Related Part Number	Customer Part Number	<b>Current Revision</b>	<b>New Revision</b>
<u>144095</u>	144095-2	TYC144095-2	E1	
144095-VAL (Customer Restricted)	144095-2	TYC144095-2	E1	



# **Product Change Notification**

Current Date: 02-Feb-2023

PCN Date: 01-FEB-23

# **TE Connectivity**

**Product Change Notification: PCN-23-164978** 

Location: Maisach-gernlinden Agreement: Agreement Unknown

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General Product Description: (Text limited to 120 characters)

2 x 3 pos MODU IV Housing & Cover

Customer: TTI, Inc. (3057778)

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Other attachments: Validation Test Report

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Connectors	Material		
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### 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
144095-2	NO		TYC144095-2				
<u>144684-1</u>	NO		TYC144684-1				



### 's-Hertogenbosch Environmental Testing Laboratory (IND)

TE Connectivity Nederland BV, Rietveldenweg 32, 5222 AR, 's-Hertogenbosch, The Netherlands

Report Title: **MOD IV 2x3 POS HOUSING** 

Report ID: 502-153654 rev. A

Date Issued: 08-Dec-2022

> TE Data Classification (TEC-02-04) class I

Requestor:

J K, Karthik

TE Project Number:

PRJ-22-000902016

Sample Name:

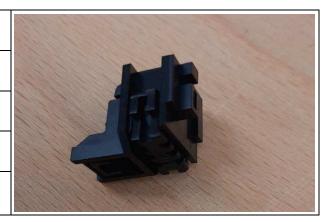
**MOD IV 2x3 POS HOUSING** 

TE Part number:

144095-2 Rev E; 144684-1 Rev B; 167301-4 Rev N

Remarks:

Samples returned to requester



Test Scope:

To determine the electrical and environmental performance of the new plastic material, when partially tested to the TE Product Specification 108-25020 Rev. A

Performed Test or Analysis:

1 Visual examination

4 Thermal shock

2 Insulation resistance

5 Humidity- temperature cycle

3 Dielectric withstanding voltage

Requirement:

TE Connectivity Product Specification 108-25020 Rev. A Test group 3

Result:

All samples passed the requirements of test group 3 of the TE Connectivity Product

Specification 108-25020 Rev. A

OK

Lab Project ID (lab internal): <b>E22.11.3458</b>	·	K. Schepers
E22.11.3430	vernoeven, Au	K. Schepers

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### **SAMPLE DESCRIPTION**

Part number	Number of samples tested for test group 3
144095-2 Rev E	5
144684-1 Rev B	5
167301-4 Rev N	30

### **TEST PROCEDURES**

EIA 364-18: **VISUAL EXAMINATION:** 

The test samples were visually inspected under a stereomicroscope, at

a 10x magnification, with suitable illumination.

EIA 364-21: **INSULATION RESISTANCE:** 

This measurement was done with a programmable electrometer. The

measuring voltage was 100 Volt during one minute.

EIA 364-20: **DIELECTRIC WITHSTANDING VOLTAGE:** 

This measurement was done with a high voltage tester. The test

duration was one minute at 750Vac.

EIA 364-32: THERMAL SHOCK:

Method II. The samples were subjected to a thermal shock test with the

following parameters: One cycle consists of:

Upper temperature : -65°C for 30 minutes. Lower temperature : 105°C for 30 minutes.

Condition : unmated.

Number of cycles : 5

EIA 364-31: THERMAL CYCLING TEST:

Method III The samples were subjected to a thermal cycling test with the

following parameters: One cycle consists of:

Upper temperature : 65°C

Lower temperature : 25°C

Relative humidity : 95%

Condition : unmated.

Number of cycles : 10



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TE Connectivity Nederland BV, Rietveldenweg 32, 5222 AR, 's-Hertogenbosch, The Netherlands

### **TEST SEQUENCE**

Group3
visual examination
insulation resistance
dielectric withstanding voltage
thermal shock
humidity-temperature cycling
insulation resistance
dielectric withstanding voltage
final visual examination

## **EQUIPMENT USED**

<b>Equipment</b> 1	<u>Manufacturer</u>	<b>Type</b>	Series Nb	Cal. Due
Discussion Stereoscope 1	Wild Heerbrugg	0	0	_
Electro meter 6517A1	Keithley	6517A	1326371	Jan-23
High voltage tester	Sefelec	RMG12 AC-DC	1842640	Jan-23
Climatic chamber 70/200	C.T.S.	CS-70/200-15	167209	Jan-23
Therm.shock chamber	C.T.S.	TSS-70/130	98170	Jan-24

### **SUMMARY OF TESTRESULTS**

Test-group 3	Number of Samples	Measurements	Requirements	Results	
-Visual examination					
- Initial	5	Meets requirements of product	Meets requirements of product		
- Final	5	drawing and TE Spec. 114-25003	drawing and TE Spec. 114-25003	OK	
-Insulation resistance					
- Initial	5	Min 4.90E+12 Ω	Min 5000E+09 Ω	OK	
- Final	5	Min 7.94E+09 Ω	Min 40E+06 Ω	OK	
- Voltage proof					
- Initial	5	No breakdown or flashover			
- Final	5	No breakdown or flashover	No breakdown or flashover	ОК	



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### **CONCLUSION:**

The new plastic material has no influence on the electrical and environmental performance of the MOD IV 2x3 position connector. All tested samples passed the requirements of test group 3 of the TE Connectivity product specification 108-25020 Rev. A.