

# **Product Change Notification**

Current Date: 18-Aug-2021

PCN Date: 17-AUG-21

## **TE Connectivity**

**Product Change Notification: PCN-21-110417** 

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:	
HV100 SMD Connector Single Row	

#### **Description of Changes**

Plastic material change for the housings from the current LCP grade to a readily available LCP grade. No effect on functionality. New LCP grade is validated. See attached test report

#### Other attachments:

Test report

Reason for Changes:		
Long lead time issues with current LCP grade, need early approval to implement within next the 90 days for fulfilling the orders.		
Estimated Dates:		
Last Order Date (Obsolete Parts Only): First Date To Ship (Changed Parts Only):		
	24-NOV-2021	
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):	
	31-DEC-2021	

#### 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>1241152-3</u>	NO		TYC1241152-3				
<u>1241152-4</u>	NO		TYC1241152-4				
<u>1241152-6</u>	NO		TYC1241152-6				

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:**

<b>Drawing Numbe</b>	rRelated Part Numbe	r Customer Part Number	<b>Current Revision</b>	New Revision
1241152	1241152-3	TYC1241152-3		

# Test Report



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

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

Report Title: HV100 SMD RECEPTACLE SINGLE ROW

Report ID: 502-153566 rev. A

Date Issued: 27-Jul-2021

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

Requestor:	
J K, Karthik	Albi
TE Project Number:	
PRJ-21-000902070	
Sample Name:	William Control
HV100 SMD RECEPTACLESINGLE ROW	The state of the s
TE Part number:	Tallation of the last of the l
1-1241152-2 Rev D	The state of the s
Remarks: Samples returned to requester	TO TO THE PARTY OF

### Test Scope:

To check the mechanical and electrical performance of the HV100 SMD receptacle single row connector produced with new plastic housing material, when tested according test group P, CP of the TE product specification 108-19056 and method B, condition B of the TEC-109-201 specification.

Performed Test or Analysis:

1 Visual examination 4 Dielectric withstanding voltage 5 Damp heat steady state 2 Termination resistance 6 Resistance to soldering heat 3 Insulation resistance

Requirement:

TE Connectivity Product Specification 108-19056 and TEC-109-201

Conclusion: All tested samples met the specified requirements of TE Connectivity Product Specification

108-19056 test group P,CP and TEC-109-201 method B, condition B.

E21.06.3197	Verhoeven, Ad	K. Schepers
Lab Project ID (lab internal):	Responsible Test Engineer:	Approver:

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Result:

OK

# **Test Report**



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

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

## **SAMPLE DESCRIPTION**

The available HV100 SMD Receptacle single row connectors (P/N: 1-1241152-2 Rev D) were divided in to two groups (P, Cp and group 2).

## **TEST PROCEDURES**

IEC 60512-1-1: VISUAL EXAMINATION:

Test 1a The test samples were visually inspected under a stereomicroscope, at

a 10x magnification, with suitable illumination.

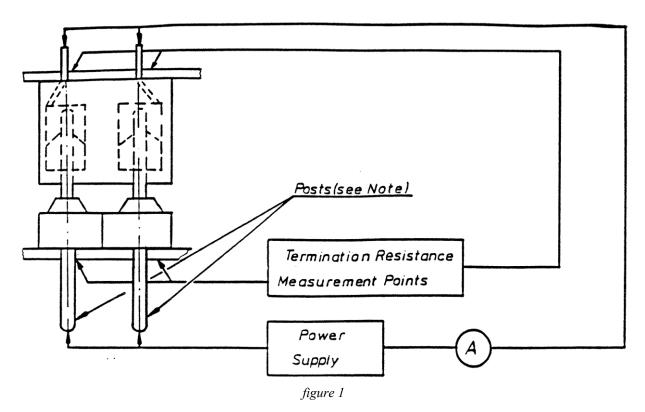
IEC 60512-2-1: TERMINATION RESISTANCE:

Test 2a The contact resistance was measured with an open circuit voltage of

20 mVolt and a maximum current of 100 mA DC, mated with a

available header from ETL lab as counterpart.

For measuring points see figure 1.



IEC 60512-3-1: INSULATION RESISTANCE:

Test 3a The unmated samples are measured with a programmable

electrometer. The measuring voltage was 100 Volt during one minute.

IEC 60512-4-1: **DIELECTRIC WITHSTANDING VOLTAGE:** 

Test 4a The unmated samples are tested with a high voltage tester. The test

duration was one minute at 1000 V<sub>rms</sub>.

# **Test Report**



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IEC 60512-11-3: **DAMP HEAT, STEADY STATE:** 

Test 11c The samples were subjected to a damp heat steady state test under the

following conditions:
Temperature : 40°C.
Rel. humidity : 95%.
Condition : unmated.
Duration : 21 days.

TEC-109-201:

**RESISTANCE TO SOLDERING HEAT:** 

§3.3 Method B, cond. B

Samples were 3 times subjected to a Hot air reflow soldering curve, under the following conditions:

- Average ramp rate: 3°C per second maximum
- Preheat temperature (minimum): 150°C
- Preheat temperature (maximum): 200°C
- Preheat time: 60 to 180 seconds
- Ramp to peak: 3°C per second maximum
- Time over liquidus (217°C): 60 to 150 seconds
- Peak temperature: 260 +0°-5°C
- Time within 5°C of peak: 20 to 40 seconds
  Ramp cool down: 6°C per second maximum
- Time 25°C to peak: 8 minutes maximum

## **TEST SEQUENCE**

Group P, CP
Visual examination
Termination resistance
Insulation resistance
Dielectric withstanding voltage
Damp heat steady state
Insulation resistance
Termination resistance
Dielectric withstanding voltage
Final visual examination

Group 2
Visual examination
Resistance to soldering heat
Final visual examination

### **EQUIPMENT USED**

<b>Equipment</b>	<b>Manufacturer</b>	<b>Type</b>	Series Nb	Cal. Due
Micro-Ohm meter 1	HIOKI	3560	90922733	Oct-22
Elektro meter 2	HIOKI	3560	110202069	Oct-22
High Voltage Tester 1	Sefelec	DXS506	1109582	Jan-22
Climatic chamber 70/20	0 C.T.S.	CS-70/200-15	167209	Feb-22
Hot air reflow oven	ALLSMT	EasyFlow	6/30	_





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

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

## **SUMMARY OF TESTRESULTS**

TstGrp P, CP	Measurements Requirements		Results
Termination resistance			
Initial	Max. 4.65 mΩ	Max. 20 mΩ	OK
Final	Max. 7.00 mΩ	Max. 20 mΩ	OK
Insulation resistance			
Initial	Min = 6.72E+13	Min. 1000E+09	OK
Final	Min = 8.74E+13 Min. 10E+09		OK
Dielectric withstanding voltage			
Initial	No flash over or break down		OK
Final	No flas	OK	

TstGrp 2	Resistance to soldering heat	Results
	No blisters, deformation/warpage or physical damage	OK