



Product Change Notification

Current Date: 20-Oct-2020

TE Connectivity

Product Change Notification: E-20-014221

PCN Date: 19-OCT-20

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:
AMPMODU II HEADER

Description of Changes
Resin change for the housing from existing PA66 grade to a readily available PA66 grade. No effect on functionality. Parts have been validated see attached test report
Other attachments:
[Test report](#)

Reason for Changes:
Product Improvement. Discontinuance of currently used PA66 grade globally.

Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	26-APR-2021
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	30-JUN-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
1-103542-5	NO		TYC1-103542-5				
1-87227-0	NO		TYC1-87227-0				
1-87227-2	NO						
5-103542-7	NO		TYC5-103542-7				
5-87348-6	NO		TYC5-87348-6				
5-87543-6	NO						
5-87543-7	NO						
87220-1	NO		TYC87220-1				
87220-3	NO		TYC87220-3				
87224-6	NO		TYC87224-6				
87227-3	NO		TYC87227-3				
87232-2	NO		TYC87232-2				

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	Current Revision	New Revision
103542	1-103542-5	TYC1-103542-5	J3	
87220	87220-1	TYC87220-1	K3	
87224	87224-6	TYC87224-6	L3	
87227	1-87227-0	TYC1-87227-0	H4	
87232	87232-2	TYC87232-2	H3	
87348	5-87348-6	TYC5-87348-6	K2	
87543	5-87543-6		H4	



Product Change Notification

Current Date: 20-Oct-2020

TE Connectivity

Product Change Notification: E-20-014221

PCN Date: 19-OCT-20

Customer: TTI, Inc. (3057778)

Location: Maisach-gernlinden

Agreement: Agreement Unknown

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:
AMPMODU II HEADER

Description of Changes
Resin change for the housing from existing PA66 grade to a readily available PA66 grade. No effect on functionality. Parts have been validated see attached test report
Other attachments:
[Test report](#)

Reason for Changes:
Product Improvement. Discontinuance of currently used PA66 grade globally.
Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	26-APR-2021
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	30-JUN-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
1-87227-0	NO		TYC1-87227-0				
1-87227-2	NO						
5-87543-6	NO						
5-87543-7	NO						
87220-3	NO		TYC87220-3				
87227-3	NO		TYC87227-3				

Test Report



's-Hertogenbosch Environmental Testing Laboratory (IND)

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

Report Title: AMPMODU MOD II HEADERS

Report ID: 502-153485 rev. A

Date Issued: 10-Sep-2020

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

Requestor: J K, Karthik	
TE Project Number: PRJ-18-000900762	
Sample Name: AMPMODU MOD II HEADERS	
TE Part number: 9-87543-0 Rev N	
Remarks: Samples returned to requestor	

Test Scope: To determine the electrical and environmental performance of the PA66 resin from Alternate supplier, when partially tested to TE product specification 108-25026.	
Performed Test or Analysis: 1 Insulation resistance 2 Dielectric withstanding voltage 3 Rapid change of temperature 4 Humidity/temperature cycling 5 Resistance to Soldering heat 6	
Requirement: TE Connectivity Product Specification 108-25026	
Conclusion: All samples met the specified requirements.	Result: Pass

Lab Project ID (lab internal): E20.08.3008	Responsible Test Engineer: Verhoeven, Ad	Approver: K. Schepers
--	--	---------------------------------

TE CONNECTIVITY CONFIDENTIAL INFORMATION.
This report shall not be reproduced except in full without the written approval of TE Connectivity. All results only relate to the items tested. TE CONNECTIVITY EXPRESSLY DISCLAIMS ANY LIABILITY OR OBLIGATION ARISING OUT OF OR CONNECTED TO THIS REPORT OR THE CIRCUMSTANCES SET FORTH HEREIN. TE Connectivity has made every reasonable effort to ensure the accuracy of the information set forth herein; however, TE Connectivity does not guarantee that it is error-free nor does TE Connectivity make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. TE CONNECTIVITY EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event will TE Connectivity be liable for any direct, indirect, incidental, special or consequential damages arising from or related to Recipient's use of the information. It is the sole responsibility of Recipient of this information to verify the results of this information using their engineering and product environment. Recipient assumes any and all risks associated with the use of the information.

Test Report



's-Hertogenbosch Environmental Testing Laboratory (IND)

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

SAMPLE DESCRIPTION

The AMPMODU MOD II header samples with partnumber 9-87543-0 rev.N were divided into two groups of 4 samples test group 4 and 5 samples for TE 109-202 Cond. A.

Part number	Number of samples to be tested per test group	
	Test group 4	TE 109-202 Cond. A
9-87543-0 rev.N	4	5

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: **WITHSTANDING VOLTAGE:**
This measurement was done with a high voltage tester. The test duration was one minute at 750V_{rms}.
- EIA 364-32: **THERMAL SHOCK:**
The samples were subjected to a thermal shock test with the following parameters:
One cycle consists of:
Upper temperature : 125°C for 30 minutes.
Lower temperature : -55°C for 30 minutes.
Condition : unmated.
Number of cycles : 5
- EIA 364-31: **TEMPERATURE HUMIDITY CYCLING:**
The samples were subjected to a temperature humidity cycling with -10° C cold shock with the following parameters:
One cycle consists of:
Maximum temperature : 65°C
Minimum temperature : 25°C
Relative humidity : 90%
Cold shock : -10°
Condition : unmated
Number of cycles : 10

Test Report



's-Hertogenbosch Environmental Testing Laboratory (IND)

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

TEC-109-202:
§4 Method A

RESISTANCE TO SOLDERING HEAT:

Solder tails of the connector were manually dipped in molten solder at a temperature of $240^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 seconds.

TEST SEQUENCE

Test Group 4	TE 109-202 Cond. A
visual examination	visual examination
insul. resistance	resistance to soldering heat condition A
dielectric strength	
thermal shock	final examination
humidity/temperature cycling	
insul. resistance	
dielectric strength	
final examination	

EQUIPMENT USED

<u>Equipment</u>	<u>Manufacturer</u>	<u>Type</u>	<u>Series Nb</u>	<u>Cal. Due</u>
Electro meter 6517A1	Keithley	6517A	1113808	Oct-21
High voltage tester	Sefelec	RMG12 AC-DC	1842640	Oct-20
Climatic chamber 65/100	C.T.S.	C-65/100	87130	Jan-22
Therm.shock chamber	C.T.S.	TSS-70/130	98170	Jan-22

SUMMARY OF TESTRESULTS

Test Group 4	Measurements	Requirements	Results
Insulation resistance			
Initial	Min = 5.16E+11	Min > 5000 M Ω	OK
Final	Min = 1.64E+10	Min > 1000 M Ω	OK
Dielectric withstanding			
Initial & Final	No flash over or break down		OK

TE 109-202 Cond. A	Results
Resistance to soldering heat TE 109-202 rev.D condition A	visual examination showed no blisters, deformation/warpage or physical damage OK