

PCN Number:	20210122001.1A	PCN Date:	June 4, 2021
Title:	New Tray for Select Devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	May 24 2021		
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification
<input type="checkbox"/>	Test Site	<input checked="" type="checkbox"/>	Packing/Shipping/Labeling
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Part number change
		<input type="checkbox"/>	Assembly Materials
		<input type="checkbox"/>	Mechanical Specification
		<input type="checkbox"/>	Test Process
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Process

PCN Details

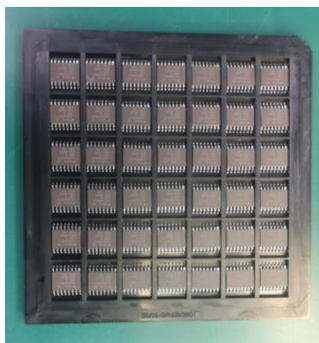
Description of Change:

Revision A is to announce the addition of new devices that were not included on the original PCN notification. These new devices are under **Group 2** in the Product affected section below. The expected first shipment date for these new devices will be 90 days from this notice (Sept 4, 2021) for these newly added devices only. The proposed 1st ship date of May 24, 2021 still applies for the original set of devices under Group 1.

Texas Instruments is pleased to announce the qualification of a new tray for the devices listed below. A comparison summary of the tray differences as follows:

Group 1 Device:

CURRENT TRAY



NEW TRAY



	EXISTING	PROPOSED	COMMENT
Part Number	8060127-0001	4225655-0001	Change
Supplier	Beyonics	TecReach	Change
Tray Design	Insert Tray	Jedec Tray	Change
Tray Dimension	101.6 x 101.6 x 8 mm	322.6 x 135.9 x 7.62 mm	Change
Surface Resistance	10 ⁴ - 10 ¹⁰ Ohm/Sq	10 ⁴ - 10 ¹⁰ Ohm/Sq	No Change
Package Size	6.35X9.91x1.78mm	6.35X9.91x1.78mm	No Change
Package Type	Gullwing	Gullwing/Cerpack	Change
Tray Pocket	6 x 7	4 x 22	Change
Color	Black	Black/Red	Change

Engineering Validation Results

Item	Current Tray			Proposed Tray			Remark
	8060127-0001			4225655-0001			
Description	DIM	MIN	MAX	DIM	MIN	MAX	
Overall Length	101.63	101.5	101.7	322.63	322.35	322.85	Change
Internal Length	NA	NA	NA	315.05	314.75	315.25	Change
Overall width	101.60	101.5	101.7	135.83	135.65	136.15	Change
Upper Stack Length	91.70	91.59	91.8	311.23	311.02	311.40	Change
Lower Stack Length	91.69	91.59	91.8	311.70	311.53	311.91	Change
Upper Stack Width	91.69	91.59	91.8	132.04	131.95	132.33	Change
Lower Stack Width	91.69	91.59	91.8	132.47	132.46	132.84	Change
Stack height	5.01	4.9	5.11	6.36	6.22	6.48	Change
Pitch M	17.96	17.85	18.05	24.45	24.32	24.58	Change
Pitch M1	16.53	16.42	16.62	16.81	16.67	16.93	Change
Pitch M2	14.20	14.1	14.3	13.39	13.27	13.53	Change
Pitch M3	12.13	12.03	12.23	28.98	28.87	29.13	Change
Length of Live Bug	10.16	10.06	10.26	10.22	10.13	10.29	Change
Length of Dead Bug	10.17	10.06	10.26	10.23	10.13	10.29	Change
Ridge Height of DeadBug	6.84	6.78	6.88	6.65	6.60	6.70	Change
Depth of Leavingbug Pocket	6.84	6.78	6.88	6.60	6.52	6.68	Change

Group 2 Device:

PROBLEM (FROM)

SOLUTION (TO)



	EXISTING	PROPOSED	COMMENT
Part Number	8062424-0001	4225717-0001	Change
Supplier	Beyonics	TecReach	Change
Tray Design	Insert Tray	Jedec Tray	Change
Tray Dimension	101.6 x 101.6 x 8 mm	322.6 x 135.9 x 7.62 mm	Change
Surface Resistance	10 ⁴ - 10 ¹⁰ Ohm/Sq	10 ⁴ - 10 ¹⁰ Ohm/Sq	No Change
Package Size	6.12X6.15x1.78mm	6.12X6.15x1.78mm	No Change
Package Type	Gullwing	Gullwing/Cerpack	Change
Tray Pocket	6 x 9	4 x 31	Change
Color	Black	Black/Red	Change

Engineering Validation Results

Item	Current Tray			Proposed Tray			Remark
	8062424-0001			4225717-0001			
Description	DIM	MIN	MAX	DIM	MIN	MAX	
Overall Length	101.600	101.498	101.702	322.600	322.350	322.850	Change
Internal Length	NA	NA	NA	315.000	314.750	315.250	Change
Overall Width	101.600	101.498	101.702	135.900	135.650	136.150	Change
Upper Stack Length	91.694	NA	NA	311.150	311.020	311.400	Change
Lower Stack Length	91.694	NA	NA	311.660	311.530	311.910	Change
Upper Stack Width	91.694	NA	NA	132.080	131.950	132.330	Change
Lower Stack Width	91.694	NA	NA	132.590	132.460	132.840	Change
Stack Height	5.004	4.902	5.105	6.350	6.220	6.480	Change
Pitch M	18.506	18.405	18.608	24.450	24.320	24.580	Change
Pitch M1	10.770	10.668	10.871	16.500	16.370	16.630	Change
Pitch M2	6.426	6.325	6.528	9.400	9.270	9.530	Change
Pitch M3	13.909	13.807	14.011	29.000	28.870	29.130	Change
Length of Live Bug	6.502	6.502	6.604	6.450	6.370	6.530	Change
Length of Dead Bug	6.502	6.502	6.604	6.450	6.370	6.530	Change
Depth of Leaving Bug Pocket	3.302	3.200	3.404	2.100	2.000	2.200	Change

Reason for Change:

Existing tray discontinuing

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

New tray

Product Affected: Group 1

5962-8773901XA	5962R9950402VZA	LF198WG-QMLV	LM139AWGRQMLV
5962-9453402QXA	7704302XA	LM124AWG/883	LM6172AMGW-QML
5962-9560402QXA	ADC128S102WGMPR	LM124AWGRLQMLV	LM6172AMGWFQMLV
5962-9673801VXA	ADC128S102WGRQV	LM124AWGRQMLV	LM6172AMGWRLQV
5962F9560402VXA	DS26C32AMWG/883	LM139AWG-QMLV	LMC6484AMWG/883
5962R9560403VXA	DS90C031WGRQMLV	LM139AWG-SMD	MPD23783NAC
5962R9673801VXA	DS90C032WGLQMLV	LM139AWG/883	MPD23784NAC
5962R9673802VXA	DS90LV031AWGMLS	LM139AWGRLQMLV	SN1401044NAC
962R9950401VZA	JL148BZA		

Product Affected: Group 2			
5962-0254501MZA	5962R0722602VZA	LM119WGRQMLV	LMH6628WGFQMLV
5962-0254601VZA	5962R0923561VZA	LM158AWG/883	LMH6702WG-QMLV
5962-0620601VZA	5962R0923562VZA	LM158AWGRLQMLV	LMH6702WGFLQMLV
5962-8759401YA	5962R1122201VZA	LM158AWGRQMLV	LMH6702WGFQMLV
5962-8759402YA	5962R8771002VXA	LM185BWG/883	LMP2012WG-QMLV
5962-8771002QXA	5962R8771003VXA	LM185WG-1.2/883	LMP2012WGLLQMLV
5962-9091402QYA	5962R9679801VXA	LM185WG-2.5/883	LMP2012WGLQMLV
5962-9553601QXA	5962R9679802VXA	LM4050WG2.5-MPR	MKT-WG10A-MS
5962F0254501VZA	DAC121S101WGMPR	LM4050WG2.5RLQV	MPD23785NAC
5962F0254601VZA	DAC121S101WGRLV	LM4050WG5.0-MPR	RM4050WG10XQV
5962F0254602VZA	DAC121S101WGRQV	LM4050WG5.0RLQV	RM4050WG2.5RQV
5962F9553601VXA	LF411MWGRLQMLV	LM7171AMWG-QML	RM4050WG5.0XQV
5962F9553602VXA	LM111WG/883	LM7171AMWGFLQV	RM4051WG1.2XQV
5962L0620601VZA	LM111WGLQMLV	LM7171AMWGFQMLV	RM411MWGXQMLV
5962L0620602VZA	LM111WGRLQMLV	LM95172EWG/NOPB	
5962R0722601VZA	LM119WGRLQMLV	LMH6628WG-QML	

Group 1 Tray Qualification



Tray Qualification

Supplier : PEAK
 Vendor p/n :
 TI part number: 4225655-1001
 Package : 14NAC/14NAD/16NAC/16NAD
 Matrix : 22 x 4
 package size : 6.35 x 9.9 x 1.77 mm
RESULT: PASSED
 Date: 10/17/20

1. Tray Design

a). Meet TI design requirement
 Result : **Passed**

2. Fitting Test

Test Conditions: Devices shall feed freely and easier to remove from the cavity.
 Result : **Passed**

3. RESISTIVITY TEST

Limit	Track1	Track2	Track3	Track4	Track5	Track1	Track2	Track3	Track4	Track5
Voltage < 200	1 PASS	3 PASS	1 PASS	1 PASS	1 PASS	2 PASS	1 PASS	1 PASS	2 PASS	1 PASS
Surface Resistance > 1.00E+04	1.10E+06 PASS	3.00E+05 PASS	5.80E+04 PASS	7.50E+04 PASS	7.00E+04 PASS	1.60E+10 PASS	1.20E+10 PASS	1.10E+10 PASS	1.90E+10 PASS	2.50E+10 PASS

Result : **Passed**

4. MANUFACTURABILITY TEST

- a) Material on evaluation will not pose any problem with the existing machine.
1. Machine feed (ok)
 2. Component pick and place (ok)
 3. Vision reflectivity (ok)
- Result : **Passed**

5. DROP TEST

Packing method : - Packing with Tray

Ship Box	8059748-0001
Tray	4225655-0001
Bubble Pack	8085735-0001
Label Pack	8032476-0001
	4200225-0002

Result: **Passed**

Group 2 Tray Qualification



Tray Qualification

Supplier : PEAK
Vendor p/n :
TI part number: 4225717-0001
Package : 10NAC/10NAD
Matrix : 4 x 31
package size : 6.12 x 6.15 x 1.78
RESULT: **PASSED**
Date: 03/15/21

1. Tray Design

- a). Meet TI design requirement
Result : **Passed**

2. Fitting Test

Test Conditions: Devices shall feed freely and easier to remove from the cavity.
Result : **Passed**

3. RESISTIVITY TEST

	Limit	Tray1	Tray2	Tray3	Tray4	Tray5
Voltage	< 200	9	10	7	12	9
		PASS	PASS	PASS	PASS	PASS
Surface Resistance	> 1.00E+04	2.50E+05	1.50E+05	1.90E+05	1.60E+05	4.60E+05
		PASS	PASS	PASS	PASS	PASS

Result : **Passed**

4. MANUFACTURABILITY TEST

- a) Material on evaluation will not pose any problem with the existing machine.
1. Machine feed (ok)
 2. Component pick and place (ok)
 3. Vision reflectivity (ok)
- Result : **Passed**

5. DROP TEST

Packing method : - Packing with Tray

Ship Box	8059748-0001
Tray	4225717-0001
Bubble Pack	8085735-0001
	8032476-0001
Label Pack	4200225-0002

Result: **Passed**

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