

**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	CRP/22/12692	
1.3 Title of PCN	CHANGE OF SUPPLIER FOR 3CP40620 (CARRIER TAPE Wi 16mm QFN/LGA 8x8 dsp)	
1.4 Product Category	Refer to impacted product list	
1.5 Issue date	2022-02-18	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
2.1.1 Name	ROBERTSON HEATHER
2.1.2 Phone	+1 8475853058
2.1.3 Email	heather.robertson@st.com
<b>2.2 Change responsibility</b>	
2.2.1 Process Owner	Chiara ZACCHERINI
2.1.2 Corporate Quality Manager	Gerard PETIT

**3. Change**

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	Any indirect material modifications for shipping products in dimensions, material, composition, orientation...	ST Calamba (Philippines)

**4. Description of change**

	Old	New
4.1 Description	Change of supplier for ST material code reference: 3CP40620 (CARRIER TAPE Wi 16mm QFN/LGA 8x8 dsp) supplied by PEAK.	Change of supplier for ST material code reference: 3CP40620 (CARRIER TAPE Wi 16mm QFN/LGA 8x8 dsp) supplied by ADVANTEK.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Form: No change on product Fit: No change on product Function: No change on product Reliability : No change on product Processability : No change on product	

**5. Reason / motivation for change**

5.1 Motivation	PEAK has declared to discontinue production of 3CP40620.
5.2 Customer Benefit	SERVICE CONTINUITY

**6. Marking of parts / traceability of change**

6.1 Description	Date-code - Internal Traceability
-----------------	-----------------------------------

**7. Timing / schedule**

7.1 Date of qualification results	2022-02-14
7.2 Intended start of delivery	2022-08-01
7.3 Qualification sample available?	Upon Request

**8. Qualification / Validation**

8.1 Description			
8.2 Qualification report and qualification results	In progress	Issue Date	

9. Attachments (additional documentations)		
12692 Public product.pdf 12692 PCN_CHANGE OF SUPPLIER_3CP40620 Rev.10.pdf		

10. Affected parts		
10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	PM8805TR	

## **IMPORTANT NOTICE – PLEASE READ CAREFULLY**

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2018 STMicroelectronics – All rights reserved

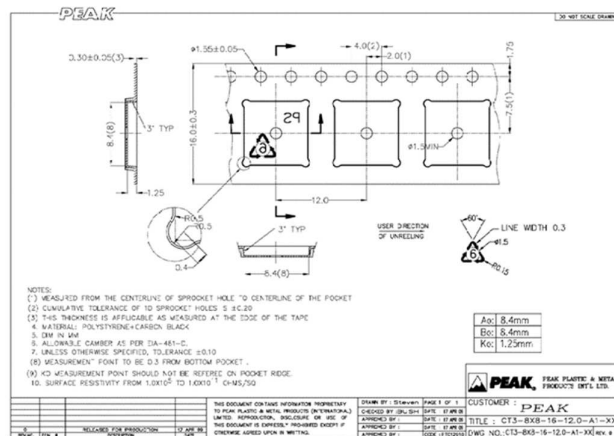
# PRODUCT / PROCESS CHANGE NOTIFICATION

## PCN - CHANGE OF SUPPLIER FOR 3CP40620 (CARRIER TAPE Wi 16mm QFN/LGA 8x8 dsp)

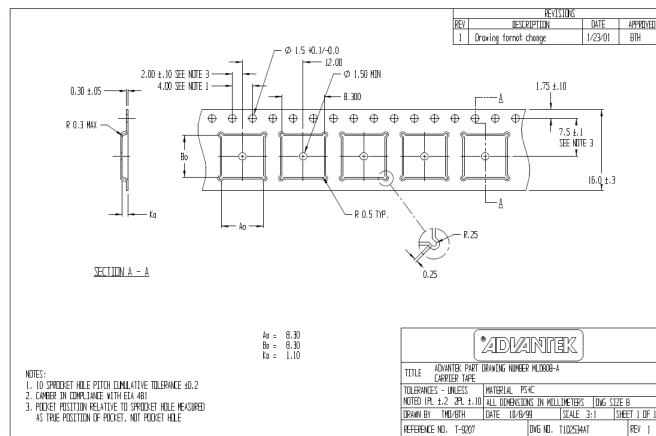
### WHAT is the change?

Change of supplier for ST material code reference: 3CP40620 (CARRIER TAPE Wi 16mm QFN/LGA 8x8 dsp) from PEAK to ADVANTEK which affected ST CALAMBA.

#### CURRENT: PEAK



#### NEW: ADVANTEK



### WHY?

- PEAK has declared to discontinue production of 3CP40620.

### WHEN will this change occur?

The change will be implemented when customer acceptance will be received.

Change targeted date is beginning of August 2022 and cut-in 100% in production to fulfill customer demand.

### HOW will the change be qualified?

- Pls refer to attached qualification reports in Appendix 2.

### IMPACTS of the Change

Form: No change on product  
Fit: No change on product  
Function: No change on product  
Reliability: No change on product  
Processability: No change on product

### APPENDICES:

APPENDIX 1 Risk assessment  
APPENDIX 2 Qualification plan  
APPENDIX 3 Qualification results

## APPENDIX 1: RISK ASSESSMENT

#	Risks identified	Potential risk resulting from	Class (Low / Medium)	Considered action
1	Insufficient lead protection from accidental drops up to 4 ft height	Units cannot be soldered at PCBA due to bent leads	Medium	Perform drop test from 4 ft height to ensure no bent leads
2	Insufficient clearance between leads and carrier tape pocket	Bent leads due to mechanical contact	Medium	Perform fit analysis considering all potential combinations for carrier tape vs package dimensions
3	Opened/improper cover tape sealing	Units drop out of carrier tape	Medium	Perform peel off strength test to ensure it meets ST requirements
4	Device malfunction	EOS damage due to ESD	Medium	Perform validation for ESD protection compliance
5				
6				
7				
8				
9				

## APPENDIX 2: QUALIFICATION PLAN

- Visual inspection report
- Drop Test, Peel Test and ESD Test
- Fit Analysis

### APPENDIX 3: QUALIFICATION EXECUTION & RESULTS

# Visual Inspection Report

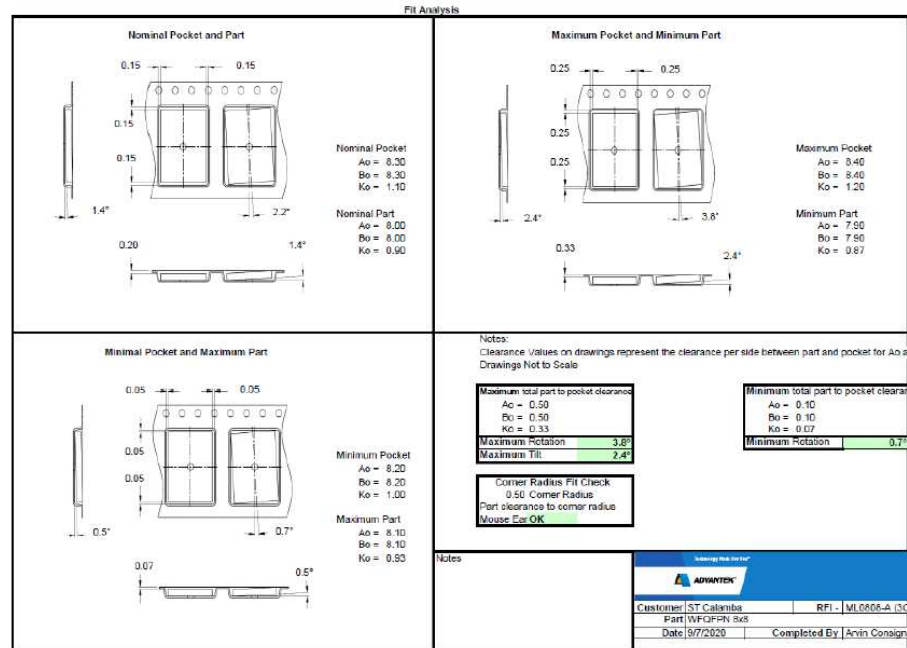
Visual inspection	Results
Does not contain stain or foreign material	Passed
No Damage	Passed
No Burr	Passed
Orientation	Passed
The component does not protrude above the top surface of the carrier tape	Passed
The component can be removed from the cavity in a vertical direction without mechanical restriction, after the top cover tape has been removed.	Passed
Lateral movement of the component is restricted to 1.0mm maximum	Passed

# Drop Test, Peel Test and ESD Test

Test	Result
Drop Test Result	Passed
Peel Test Result	Passed
ESD Test Result	Passed

# CADFIT Simulation

FIT Test: Passed



Results : Passed

Sufficient clearance available between leads and carrier tape cavity

# Conclusion

Based on above material qualification, the 16mm carrier tape from Advantek for QFN 8x8x1mm with drawing number ML0808-A passed the Tape and Reel processing requirements.





## Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

**PCN Title :** CHANGE OF SUPPLIER FOR 3CP40620 (CARRIER TAPE Wi 16mm QFN/LGA 8x8 dsp)

**PCN Reference :** CRP/22/12692

**Subject :** Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

PM8805TR	STPDDC60TR	STRG06TR
----------	------------	----------



### IMPORTANT NOTICE – PLEASE READ CAREFULLY

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.