

## 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

2.1 Contact supplier	
2.1.1 Name	ROBERTSON HEATHER
2.1.2 Phone	+1 8475853058
2.1.3 Email	heather.robertson@st.com
2.2 Change responsibility	
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
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### 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**

<b>10. 1 Current</b>		<b>10.2 New (if applicable)</b>
<b>10.1.1 Customer Part No</b>	<b>10.1.2 Supplier Part No</b>	<b>10.1.2 Supplier Part No</b>
	PM8805TR	

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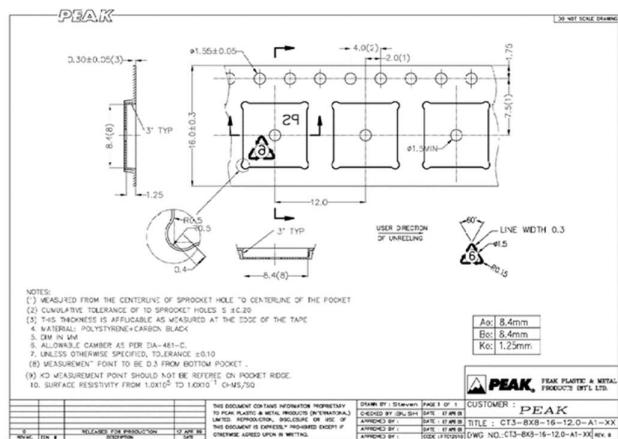
## PRODUCT / PROCESS CHANGE NOTIFICATION

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

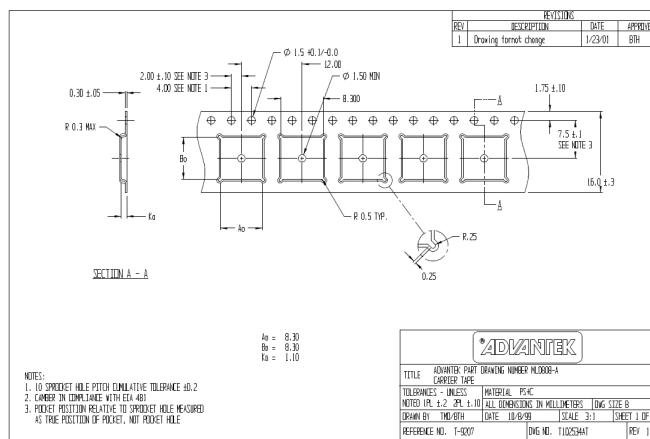
#### WHAT is the change?

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

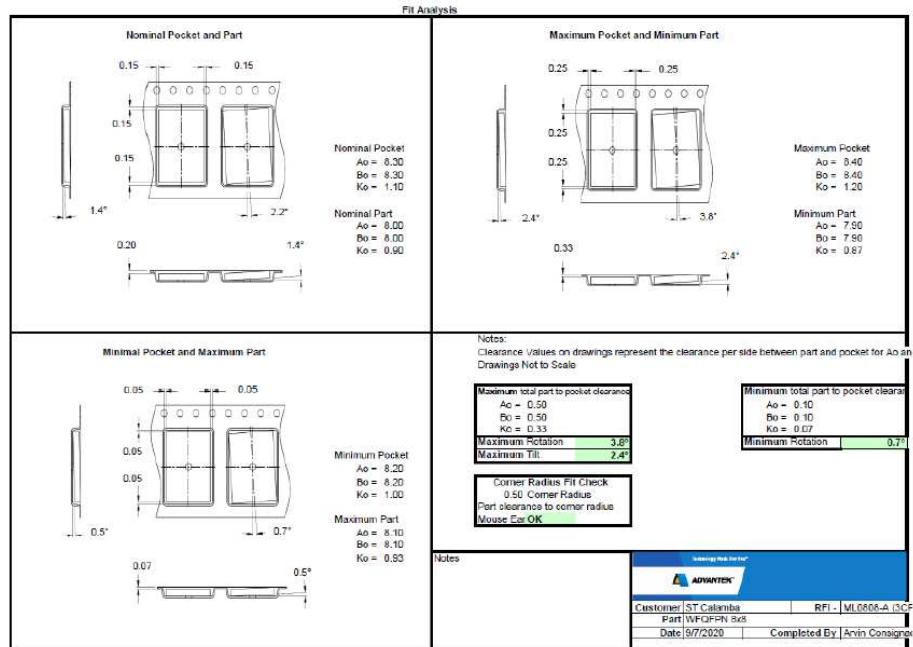
Visual inspection	Results
Does not contain stain or foreign material	Passed
No Damage	Passed
No Burr	Passed
Orientation	Passed
The component does not protrude above the top surface of the carrier tape	Passed
The component can be removed from the cavity in a vertical direction without mechanical restriction, 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
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