

## PRODUCT / PROCESS CHANGE INFORMATION

### 1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.		CRP/21/12730
1.3 Title of PCI		CHANGE OF SUPPLIER FOR 3CP40619 (CARRIER TAPE Wi 16mm QFN/LGA 7x7x1.1 dsp)
1.4 Product Category		Refer to impacted product list
1.5 Issue date		2021-11-17

### 2. PCI 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: 3CP40619 (CARRIER TAPE Wi 16mm QFN/LGA 7x7x1.1 dsp) supplied by PEAK	Change of supplier for ST material code reference: 3CP40619 (CARRIER TAPE Wi 16mm QFN/LGA 7x7x1.1 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 3CP40619
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	2021-11-15
7.2 Intended start of delivery	2022-02-21
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)**

12730 Public product.pdf  
12730 PCI\_CHANGE OF SUPPLIER\_3CP40619 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>
	L6206Q	
	L6207Q	
	L6208Q	
	L6235Q	
	PM6641TR	
	ST7580	

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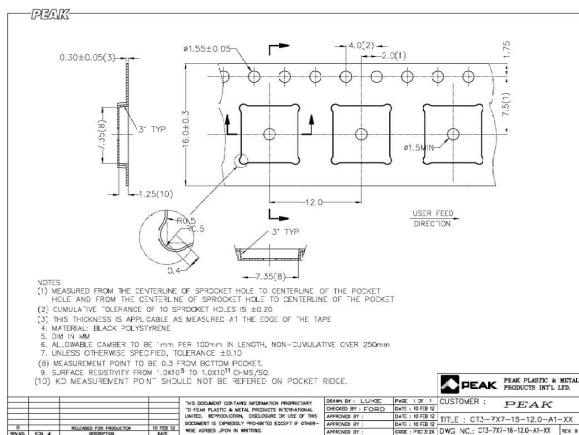
## PRODUCT / PROCESS CHANGE INFORMATION

### PCI - CHANGE OF SUPPLIER FOR 3CP40619 (CARRIER TAPE Wi 16mm QFN/LGA 7x7x1.1 dsp)

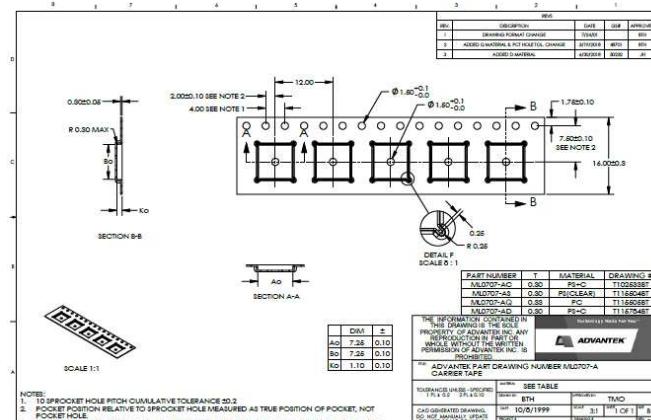
#### WHAT is the change?

Change of supplier for ST material code reference: 3CP40619 (CARRIER TAPE Wi 16mm QFN/LGA 7x7x1.1 dsp) from PEAK to ADVANTEK. This change affected ST CALAMBA.

#### CURRENT: PEAK



#### NEW: ADVANTEK



#### WHY?

- PEAK has declared to discontinue production of 3CP40619.

#### WHEN will this change occur?

The change will be implemented when customer acceptance will be received. Change targeted date is mid of February 2022, and cut-in 100% in production.

#### 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	Device malfunction	EOS damage due to ESD	Medium	Perform validation for ESD protection compliance
3	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
4	Opened/improper cover tape sealing	Units drop out of carrier tape	Medium	Perform peel off strength test to ensure it meets ST requirements
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

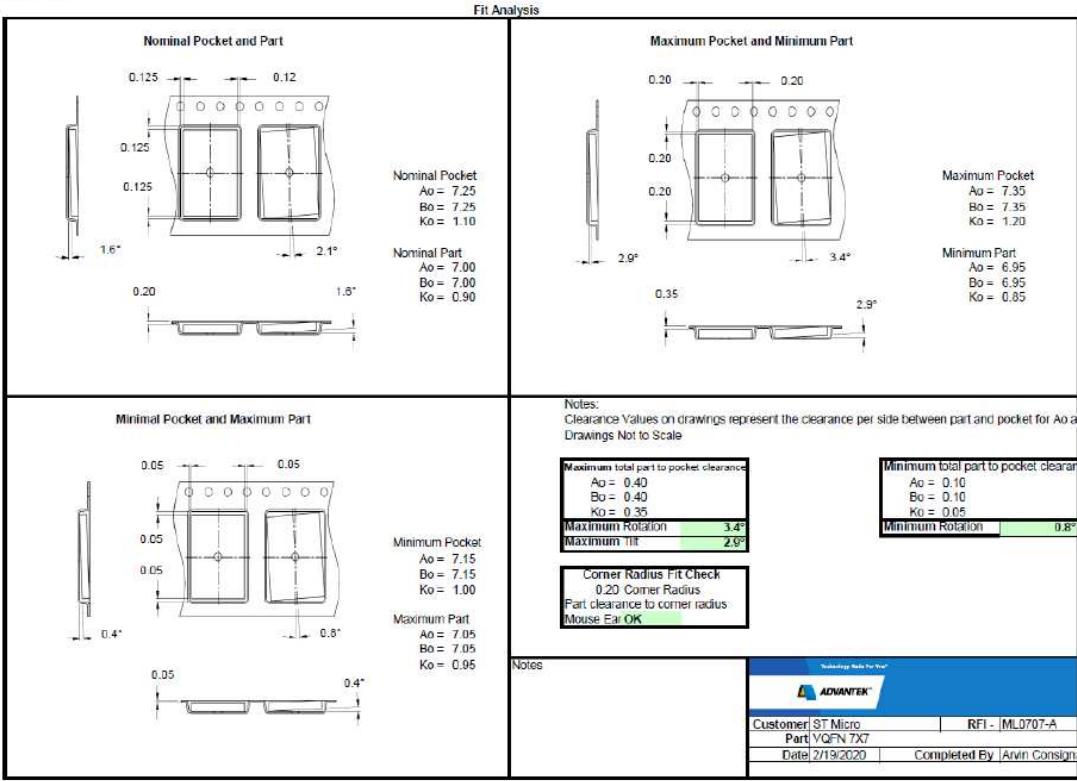
# Drop Test, Peel Test and ESD Test

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

# Fit Analysis

## CADFIT Simulation

FIT Test: Passed



## Results : Passed

- Sufficient clearance available between leads and carrier tape cavity

# Conclusion

**Based on all evaluations performed, the 16mm carrier tape from Advantek for QFN 7x7 meets all ST 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

**PCI Title :** CHANGE OF SUPPLIER FOR 3CP40619 (CARRIER TAPE Wi 16mm QFN/LGA 7x7x1.1 dsp)

**PCI Reference :** CRP/21/12730

**Subject :** Public Products List

Dear Customer,

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

ST75MM	LED7708	ST7580TR
L6207Q	L6206Q	PM6641TR
ST7580	L6208Q	L6235Q



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