

A large, stylized lightning bolt graphic in shades of blue and white, extending from the top left towards the center of the slide.

Electronic Components  
**KEMET**  
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PCN-121217-AGA Qualification  
*Arrays packaging carrier material change  
from plastic to paper*

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# Qualification Plan

## Objective:

Arrays packaging carrier material change from plastic to paper.

## Scope:

Capacitor Arrays CA Series (1632 & CA064 Case Sizes)  
 Commercial & Automotive Grade

## Qualification Plan:



- Part Numbers:
  - CA064X103K5RAC
  - CA064X223M5RAC
  - CA064X473M5RAC
- 9 Reels per PN

Measurements (EIA Limits)	Strips / reel	Pockets / strip	Sample / reel
Cleareances Ao	6	100	600
Cleareances Bo	6	100	600
Cleareances Ko	6	100	600
Pull test (60°C/ 90%RH)	3	200	600
Pull test (-50°C)	3	200	600
Gravity test (60°C/ 90%RH)	3	200	600
Gravity test (-50°C)	3	200	600
Flipped chip	3	200	600

# Qualification Results

Output	Limits	Ppk	Result
Cleareances Ao	0.05 – 0.5 mm	3.61	Accepted
Cleareances Bo	0.05 – 0.5 mm	3.41	Accepted
Cleareances Ko	0.05 – 0.5 mm	1.80	Accepted
Pull test (60°C/ 90%RH)	15-100 gr	1.47	Accepted
Pull test (-50°C)	15-100 gr	1.68	Accepted
Gravity test (60°C/ 90%RH)	0/200	Pass	Accepted
Gravity test (-50°C)	0/200	Pass	Accepted
Flipped chip	0/200	Pass	Accepted

Reference: QOD-510

## Product/Process Change Notification PCN-121217-AGA

<b>Date:</b>	<b>ID Number (MMDDYY):</b> 121217	
<b>Affected Products</b>	<b>Product Line:</b> Capacitor Arrays CA Series	<b>Case Size:</b> 1632, A064
	<b>Voltages:</b> All	<b>Tolerances:</b> All
	<b>End Terminations:</b> All	<b>C-spec's:</b> All
	<b>Grades:</b> Commercial and Automotive	
<b>Change</b>	<p><u>Arrays packaging carrier material change from plastic to paper.</u></p> <ul style="list-style-type: none"> <li>- 7" Reel quantity remain the same (4,000 pcs)</li> <li>- 13" Reel quantity remain the same (10,000 pcs)</li> </ul> <p><i>Please Note that form, fit and function of the part are not affected by this change therefore all electrical, mechanical and reliability characteristics of these parts remain the same.</i></p>	
<b>Justification and Benefits</b>	Productivity Improvement on arrays product.	
<b>Effective Date and Identification</b>	February 26 <sup>th</sup> 2018.	
<b>To Obtain Samples or General Information Contact</b>	Ana Garza Product Management CBG (956) 982 4644 <a href="mailto:anagarza@kemet.com">anagarza@kemet.com</a>	

Affected part types with 24-month sales history:			
C1632C100K4GAC7800	C1632C103K5RAC7800	C1632C220K2GAC7800	C1632C471K5RAC7800
C1632C100K5GAC7800	C1632C103M3RAC7800	C1632C220K5GAC76217800	C1632C471M3GAC7800
C1632C100M5GAC7800	C1632C103M4RAC3124	C1632C220K5GAC7800	C1632C471M5RAC7800
C1632C101K5GAC7800	C1632C103M4RAC7800	C1632C221K5GAC3124	C1632C472K5RAC7800
C1632C101M5GAC7800	C1632C103M5RAC3020	C1632C221K5GAC7800	C1632C472M5RAC3129
C1632C102K5RAC3123	C1632C103M5RAC3123	C1632C221K5GACAUTO	C1632C473K4RAC7800
C1632C102K5RAC31237683	C1632C103M5RAC3129	C1632C221M5GAC7800	C1632C680K5GAC3124
C1632C102K5RAC3124	C1632C103M5RAC7800	C1632C222K5RAC7800	C1632C680K5GAC7800
C1632C102K5RAC7800	C1632C103M5RACAUTO	C1632C223K4RAC7800	C1632X223K5RAC3124
C1632C102M1RAC3124	C1632C104K4RAC7210	C1632C223K5RAC3123	C1632X223K5RAC7800
C1632C102M5RAC3020	C1632C104K4RAC7533	C1632C223K5RAC7800	
C1632C102M5RAC3124	C1632C104K4RAC7800	C1632C223M3RAC7800	
C1632C102M5RAC3129	C1632C104K4RAC7867	C1632C223M5RAC3020	
C1632C102M5RAC7800	C1632C104M4RAC3123	C1632C330K5GAC7800	
C1632C102M5RACAUTO	C1632C104M4RAC3129	C1632C331K5GAC7800	
C1632C103K3RAC7800	C1632C104M4RAC7800	C1632C331K5RAC7800	
C1632C103K4RAC3123	C1632C104M4RACAUTO	C1632C332K1RAC7800	
C1632C103K4RAC7800	C1632C151K5GAC3123	C1632C391K5RACAUTO7210	
C1632C103K5RAC3123	C1632C151K5GAC7800	C1632C470K5GAC7800	
C1632C103K5RAC3124	C1632C153K5RAC3124	C1632C471K4RAC7800	
C1632C103K5RAC7533	C1632C153K5RAC7800	C1632C471K5GAC3124	
C1632C103K5RAC76217800	C1632C181K5GAC7800	C1632C471K5GAC7800	

Reference: QOD-510

<b>Affected part types with 24-month sales history:</b>			
CA064X101M5GAC3020	CA064X103K1RACAUTO	CA064X153K1RAC7800	CA064X332K2RAC7533
CA064X102K2RAC7533	CA064X103K2RAC7533	CA064X153K1RACAUTO	CA064X332K2RAC7536
CA064X102K2RAC7536	CA064X103K2RAC7536	CA064X222K2RAC7533	CA064X332K2RAC7800
CA064X102K2RAC7800	CA064X103K2RAC7800	CA064X222K2RAC7536	CA064X332K2RACAUTO
CA064X102K2RACAUTO	CA064X103K2RACAUTO	CA064X222K2RAC7800	CA064X471K3RAC7800
CA064X102M5RAC3020	CA064X103M5RAC3020	CA064X222K2RACAUTO	CA064X473K5RAC3124
CA064X102M5RACAUTO	CA064X103M5RAC3123	CA064X223K1RAC7533	CA064X473K5RACAUTO
CA064X103K1RAC7533	CA064X103M5RAC7536	CA064X223K1RAC7536	CA064X102K5RACAUTO
CA064X103K1RAC7536	CA064X153K1RAC7533	CA064X223K1RAC7800	CA064X103M1RAC3123
CA064X103K1RAC7800	CA064X153K1RAC7536	CA064X223K1RACAUTO	

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