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10 Nov 2019

PCN (Product Change Notification) reference: **2019/10**

Subject: StackiCap™ surface protection introduction to safeguard the product under high humidity environments

Dear Customer,

The purpose of this notification is to advise that Knowles is introducing a surface protection layer to safeguard the product from potential resistance deterioration and surface arcing under high humidity environment. The reason for the change is that for these high cap value and higher voltage parts, the risk of surface arcing increases, particularly under conditions of higher humidity. The protection layer has been proven to mitigate these effects and is recommended for all applications for the part numbers on this PCN. The protection layer has been fully qualified and has been found to not affect any form, fit or function of the parts, apart from the positive effects seen in humid environments.

Please note:

- This change only applies to limited part numbers (part numbers provided in appendix 1).
- There is no change with respect to product performance.
- The change will have potentially better performance under conditions of higher humidity
- The surface protection layer is not detectable by normal means (visual inspection, micro section, electrical tests, etc)
- The addition of the surface protection to the MLCC does not eliminate our recommendation that the part is evaluated in application to determine if additional conformal coating is required. This may be influenced by external factors such as board design.

If you require further information, please contact Knowles sales, email addresses provided in this PCN.

Yours sincerely,

Alice Liu
Quality Manager, Knowles Capacitors

PCN Details

PCN reference: 2019/10

PCN Issue Date: 10 Nov 2019

Product: StackiCap™ components, part numbers provided in appendix 1.

Change Description: Surface protection layer introduction in StackiCap™ product.

Reasons for Request: Reduce susceptibility to surface arcing under high humidity.

Changes to Form,
Fit or Function: No changes to component form, fit, or function.

Changes to Quality
or Reliability: Enhanced performance under conditions of higher humidity.

Changes to Part
Numbers: None.

Qualification
Results: Available on request.

Are Samples
Available? Available on request.

Implementation date: 30 days from PCN date

Appendix 1: Part number affected

1812Y1K00104KETWS2	2220H1K00474KXTWS2	2220Y5000105KXBWS2	3640H2500565JXRWS2
1812Y1K00154KETWS2	2220H2000225KXBWS2	2220Y5000105KXTWS2	3640J1K00105KXBWS2
1812Y1K00154KXBWS2	2220H5000105JXBWS2	2220Y5000105MXBWS2	3640Y1K00105KEBWS2
1812Y1K00154KXTWS2	2220H5000105KXBWS2	2220Y5000125JXBWS2	3640Y1K00105KERWS2
1812Y1K00154MXTWS2	2220H5000105KXRWS2	2220Y5000125KXBWS2	3640Y1K00105KETWS2
1812Y1K00184KEBWS2	2220H5000105KXTWS2	2220Y5000125KXTWS2	3640Y1K00105KXBWS2
1812Y1K00184KETWS2	2220H6300105KETWS2	2220Y5000125MXBWS2	3640Y1K00105KXRWS2
1812Y1K00184KXTWS2	2220H6300105KXBWS2	2220Y6300105JEBWS2	3640Y1K00105KXTWS2
1812Y1K20104KETWS2	2220H6300105KXTWS2	2220Y6300105JXBWS2	3640Y1K00105MXTWS2
1812Y1K50333KXTWS2	2220J2500225KXBWS2	2220Y6300105JXTWS2	3640Y1K00824MXTWS2
1812Y1K50563KXBWS2	2220Y1K00154KXBWS2	2220Y6300105KEBWS2	3640Y1K20474KEBWS2
1812Y1K50563KXRWS2	2220Y1K00154KXTWS2	2220Y6300105KETWS2	3640Y1K20474KERWS2
1812Y1K50563KXTWS2	2220Y1K00224KEBWS2	2220Y6300105KXBWS2	3640Y1K20474KXBWS2
1812Y2000105JXBWS2	2220Y1K00474JXBWS2	2220Y6300105KXTWS2	3640Y1K20474KXRWS2
1812Y2000105KXBWS2	2220Y1K00474JXTWS2	2220Y6300105MXBWS2	3640Y1K50334KXBWS2
1812Y2000105KXTWS2	2220Y1K00474KEBWS2	2220Y6300474KXBWS2	3640Y1K50334KXRWS2
1812Y2500105JXBWS2	2220Y1K00474KETWS2	2220Y6300474MEBWS2	3640Y2000565KXRWS2
1812Y2500105KEBWS2	2220Y1K00474KXBWS2	2220YA250103KXBWS2	3640Y2500565KXBWS2
1812Y2500105KETWS2	2220Y1K00474KXRWS2	2220YA250103MXBU16WS2	3640Y5000275KXBWS2
1812Y2500105KXBWS2	2220Y1K00474KXTWS2	2220Y5000105KXBWS2	8060Y1000226MXBWS2
1812Y2500105KXTWS2	2220Y1K00474MXBWS2	2220Y5000105KXTWS2	8060Y4K00104JXBWS2
1812Y5000474JXBWS2	2220Y1K00474MXTWS2	2220Y5000105MXBWS2	
1812Y5000474KETWS2	2220Y1K20224JXBWS2	2220Y5000125JXBWS2	
1812Y5000474KXBWS2	2220Y1K20224KXBWS2	2220Y5000125KXBWS2	
1812Y5000474KXTWS2	2220Y1K20224KXTWS2	2220Y5000125KXTWS2	
1812Y5000474MXBWS2	2220Y1K50104KXBWS2	2220Y5000125MXBWS2	
1812Y5000474MXTWS2	2220Y1K50104KXTWS2	2220Y6300105JEBWS2	
1812Y6300224KETWS2	2220Y1K50154JXBWS2	2220Y6300105JXBWS2	
1812Y6300224KXTWS2	2220Y1K50154KXBWS2	2220Y6300105JXTWS2	
1812Y6300224MXTWS2	2220Y1K50154KXRWS2	2220Y6300105KEBWS2	
	2220Y1K50154KXTWS2	2220Y6300105KETWS2	
	2220Y1K50823JXBWS2	2220Y6300105KXBWS2	
	2220Y1K50823KXTWS2	2220Y6300105KXTWS2	
	2220Y2000225JXBWS2	2220Y6300105MXBWS2	
	2220Y2000225KXBWS2	2220Y6300474KXBWS2	
	2220Y2000225KXTWS2	2220Y6300474MEBWS2	
	2220Y2500225KXBWS2	2220YA250103KXBWS2	
	2220Y2500225KXTWS2	2220Y5000105JXTWS2	
	2220Y2K00104JXBWS2	2220Y5000105KETWS2	
	2220Y2K00104KETWS2	2220Y5000105JXBWS2	
	2220Y2K00104KXBWS2		
	2220Y2K00104KXRWS2		
	2220Y2K00104KXTWS2		
	2220Y2K00104MXBWS2		
	2220Y2K00473KXBWS2		
	2220Y2K00473KXTWS2		