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21st December 2018

PCN (Product Change Notification) reference: 2018/02 Stage 2

Subject: Introduction of Second Source for Electrode Material

Dear Customer,

The purpose of this notification is to advise that Knowles is continuing to gradually phase-in a second source of electrode material. Stage 1 introduction has been very successful (formal notification was issued to Stage 1 associated customers) and Knowles is now beginning Stage 2 which will phase-in the electrode material for other products. The reason for second source of electrode material is to mitigate risks associated with a single supplier to prevent potential future business disruption, such as resulting from a natural disaster.



Diagram of internal construction

There are no changes to component specifications and no changes to part numbers. Qualification tests including AEC-Q200 stress test have been completed and data packs are available on request.

If you require further information, please contact Knowles sales.

Yours sincerely,

Alice Liu Quality Manager, Knowles Capacitors

## PCN Details

PCN reference:	2018/02 Stage 2
PCN Issue Date:	<ul><li>Stage 1: 9<sup>th</sup> April 2018.</li><li>Stage 2: January 2019. Gradual phase-in approach.</li></ul>
Product:	Implementation conducted in 2 stages. Stage 1:
	0805Y0500104KXT
	2220Y1K00104KJTAF2

080	5Y0500104KXT
222	0Y1K00104KJTAF2
222	0J1K00104KJTAF2
181	2Y6300104KJT
181	2J1K00473KJT

Stage 2:

Syfer part numbers: Example 0805 Y 050 0104 Κ Х Т Case Size Termination Voltage Capacitance Capacitance Dielectric Packaging Suffix Code Tolerance PCN affects all MLC dielectric codes:

### Novacap part numbers:



Request Description: Second source of electrode ink.

Reasons for Request: Mitigate risks associated with a single supplier, such as a natural disaster.

Changes to Form,<br/>Fit or Function:No changes to component specifications.Changes to Quality<br/>or Reliability:None.Changes to Part<br/>Numbers:None.Qualification<br/>Results:Available on request.Are Samples<br/>Available?Available on request.

Implementation date: 90 days after PCN release.

# Performance curves examples - current and second source material

## <u>0805Y0500104\*X\* / \*J\*</u>









#### 1812J1K00473\*X\* / \*J\*































No notable difference between performance curves was identified. Performance was within specification where applicable.