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MOUSER ELECTRONICS INC.
75100

April 2015

PCN (Product Change Notification) reference: **2015/04**

Subject: **X7R Dielectric Introduction**

Dear Customer,

With the successful introduction of the PSL BME X7R range, the Knowles capacitor group is pleased to announce that this material may replace the current X7R materials used for standard X7R Multilayer Ceramic Capacitors (MLCCs) manufactured by the Knowles Suzhou facility.

This PCN only relates to standard MLCC X7R Multilayer Ceramic Capacitors.

This PCN does **not apply** to IECQ, AEC-Q200, Space ranges (S02A or S03A), non-magnetic parts, planar arrays, discoidals or panel mount filters.

The PSL BME X7R range is manufactured to the same exacting standards, and has been developed for a wide range of demanding applications.

There is no difference when comparing PSL BME X7R with the current MLCC X7R ranges with respect to component sizes and other component specifications. As such, there will be no part number changes.

Knowles has now accumulated extensive reliability test data in order to verify that the new range meets or exceeds all reliability and quality specifications. Data packs are available on request.

For customers unable to accept this change we are willing to accommodate these requirements by generating a special suffix code effectively making this a custom specific part number. Please note that there may be cost implications associated with this.

If you require further information, please contact Knowles sales.

Yours sincerely,

Stephen Watts
Management Systems and Compliance Officer
Knowles Capacitors

PCN Details

PCN reference: 2015/04

PCN Issue Date: 30th April 2015

Product: Standard X7R component ranges.

Request Description: Replace current X7R materials with PSL BME X7R materials.

Reasons for Request: Utilise PSL BME X7R material.

Changes to Form, Fit or Function: No changes to component specifications.

Changes to Quality or Reliability: None.

Changes to Part Numbers: No changes to part numbers following the implementation date. Following implementation, commercial X7R part numbers may then contain PSL BME X7R material.

Classification	Current P/N Example	Current Dielectric	Future P/N	Future Dielectric
IECQ	Syfer 1812J2000103K**D**T	Current material	No change	No change
AEC-Q200	Syfer 1812J2000103K**E**T	Current material	No change	No change
Non-Magnetic	Syfer 0805**2**1000471KXT 0805**3**1000471KXT	Current material	No change	No change
Commercial	Syfer 1812J2000103K**X**T	Current material	1812J2000103K**X**T	PSL (phased-in)
Commercial with Special Suffix Code. (Code to be advised)	Syfer 1812J2000103K**X**T	Current material	1812J2000103K**X**TXXX(1)	No change unless authorised by customer.
Hi-Rel	Novacap 1812B103K201NHT	Current material	No change	No change
Commercial	Novacap 1812B103K201NT	Current material	1812B103K201NT	PSL (phased-in)
Commercial with Special Suffix Code.	Novacap 1812B103K201NT	Current material	1812B103K201NT-PE	No change

Notes:

1. For customers requiring no change to commercial parts, special suffix code will ensure current material is used but potentially at an additional cost. The suffix code (XXX) will be advised on request.
2. PSL BME X7R products are available now with J dielectric part number code. Part number example: 1812J2000103K**J**T
   J represents dielectric code position

Qualification Results:	Qualification results will be provided on request.
Are Samples Available?	Samples available on request.
Implementation date:	X7R parts manufactured using PSL BME using standard X7R part numbers will be phased into supply from 1st November 2015.