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Semi Dice
-2146826246

February 2015

PCN (Product Change Notification) reference: **2015/01**

Subject: **C0G/NP0 Dielectric Introduction**

Dear Semi Dice,

With the successful introduction of the PSL BME C0G/NP0 range, the Knowles capacitor group is pleased to announce that this material may replace the current C0G/NP0 materials used for standard C0G/NP0 Multilayer Ceramic Capacitors (MLCCs) manufactured by the Knowles Suzhou facility.

This PCN only relates to standard MLCC C0G/NP0 Multilayer Ceramic Capacitors and does not apply to IECQ, AEC-Q200 or Space ranges (S02A or S03A).

The PSL BME C0G/NP0 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 C0G/NP0 with the current MLCC C0G/NP0 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

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PCN Details

PCN reference: 2015/01

PCN Issue Date: 2nd February 2015

Product: Standard C0G/NP0 component ranges.

Request Description: Replace current C0G/NP0 materials with PSL BME C0G/NP0 materials.

Reasons for Request: Utilise PSL BME C0G/NP0 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, C dielectric code part numbers may then contain PSL BME C0G/NP0 material.

Classification	Current P/N Example	Current Dielectric	Future P/N	Future Dielectric
IECQ	Syfer 1812J2000103K FT	Current material	No change	No change
AEC-Q200	Syfer 1812J2000103K AT	Current material	No change	No change
Commercial	Syfer 1812J2000103K CT	Current material	1812J2000103K CT	PSL (phased-in)
Commercial with Special Suffix Code. (Code to be advised)	Syfer 1812J2000103K CT	Current material	1812J2000103K CT XXX ⁽¹⁾	No change
Hi-Rel	Novacap 1812N103K201N HT	Current material	No change	No change
Commercial	Novacap 1812N103K201N T	Current material	1812N103K201N T	PSL (phased-in)
Commercial with Special Suffix Code.	Novacap 1812N103K201N T	Current material	1812N103K201N T -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 C0G/NP0 products are available now with G dielectric part number code. Part number example: 1812J2000103K**G**T
G represents dielectric code position

Qualification

Results: Qualification results will be provided on request.

Are Samples
Available?

Samples available on request.

Implementation date: COG/NP0 parts manufactured using PSL BME using standard COG/NP0 part numbers will be phased into supply from 1st August 2015.