



IECQ Certificate of Conformity Qualification

IECQ Certificate No.:	IECQ-C BSI 14.0019	Issue No.:	4	Status:	Current
Supersedes:	IECQ-C BSI 14.0019 Issue 3	Issue Date:	2017/10/04	Org Issue:	2014/07/10
CB Reference No.:	E1290/F	Expiration:	2020/02/01		

Knowles Electronics (Suzhou) Co., Ltd
No. 20 Chunxing Road,
Xiangcheng Economic Development District,
Suzhou, Jiangsu, 215131
China

The organization has developed and implemented procedures and related processes which have been assessed by the IECQ Certification Body issuing this certificate and found to comply with the applicable requirements of the IECQ Approved Component Scheme "Qualification Approval" which is in accordance with the Basic Rules IECQ 01 "Rules of Procedure", IECQ 03-1 "IECQ General Requirements for all Schemes" and IECQ 03-3 Annex C "IECQ Approved Components Scheme" of the IEC Quality Assessment System for Electronic Component (IECQ), and in respect of standard(s) or specification(s):

- QC 32100-A001 (Ed. 4, June 2016) – Assessment Specification for Multilayer Ceramic Capacitors: C0G, dielectric constant range 10 – 100, and X7R, dielectric constant range 1000 - 4000
- QC 32100-C001 (Ed. 3, June 2016) – Component Specification for Multilayer Ceramic Capacitors: C0G, dielectric constant range 10 – 100, and X7R, dielectric constant range 1000 - 4000

Process Manual Reference: Test Report: 201501 dated 18 August 2015

Details of Components/Assemblies/Materials:

Fixed multilayer ceramic chip capacitors: C0G – Ultra Stable Class I and X7R – Stable Class II
Rated capacitance range: 220nF maximum (Class I): 6.8µF maximum (Class II)
Capacitance Tolerances: ± 0.1pF, ± 0.25pF, ± 0.5pF (Class I Cr < 10pF)
± 1%, ± 2%, ± 5%, ± 10% (Class I Cr ≥ 10pF)
± 5%, ± 10%, ± 20% (Class II)
Rated Voltages: 16V, 25V, 50/63V, 100V, 200/250V, 500V, 1kV
Case size: 0603, 0805, 0907, 1206, 1210, 1808, 1812, 2220, 2225
Climatic Category: 55/125/56

-- Attached Schedule: E1290_F Issue 4 scope.pdf --

Issued by the Certification Body (CB): BSI

Kitemark Court, Davy Avenue
Knowlhill, Milton Keynes MK5 8PP
United Kingdom

Authorized person:
Paul Turner

PT _____



The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.
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IEC QUALITY ASSESSMENT SYSTEM (IECQ)

covering Electronic Components,
Assemblies, Related Materials and Processes

For rules and details of the IECQ visit www.iecq.org

Schedule of Scope to Certificate of Conformity Approved Component – Qualification Approval

IECQ Certificate No.: IECQ-C BSI 14.0019

CB Certificate No.: E1290/F

Schedule Number: IECQ-C BSI 14.0019-S

Rev No.: 4

Revision Date: 2017/10/04

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Scope of Activity:

In respect of generic/sectional specification: BS EN 60384-1

R&D and Sales of Multilayer Ceramic Capacitors
Know les (UK) Ltd
Hethel Engineering Centre
Chapman Way
Hethel
Norwich
NR14 8FB
United Kingdom

Design and Manufacturing, test and Inspection, Packing Operations, excluding Plating and Shipping:
Know les Electronics (Suzhou) Co., Ltd
No. 20 Chunxing Road
Xiancheng Economic Development District
Suzhou, Jiangsu, 215131
China

Shipping Hub Activities for Know les Products
Know les IPC (M) Sdn Bhd
11, 49, 51, Jalan Batu Maung, Dis3plex Free Commercial Zone,
Airfreight Forwards Warehousing, Cargo Complex
11960 Penang
Malaysia

Plating of chip capacitor terminations
Suzhou City Gusu Plating Co., Ltd
Road Jufeng 666
Suzhou Xiangcheng District
Jiangsu 215144
China

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