



# IEC QUALITY ASSESSMENT SYSTEM (IECQ)

covering Electronic Components,  
Assemblies, Related Materials and Processes

For rules and details of the IECQ visit [www.iecq.org](http://www.iecq.org)

## IECQ Certificate of Conformity Qualification

IECQ Certificate No.:	IECQ-C BSI 14.0019	Issue No.:	6	Status:	Current
Supersedes:	<a href="#">IECQ-C BSI 14.0019 Issue 5</a>	Issue Date:	2020/02/21	Org Issue:	2014/07/10
CB Reference No.:	E1290/F	Expiration:	2023/02/01		

### 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: .

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:  $\pm 0.1\text{pF}$ ,  $\pm 0.25\text{pF}$ ,  $\pm 0.5\text{pF}$  (Class I Cr < 10pF)

$\pm 1\%$ ,  $\pm 2\%$ ,  $\pm 5\%$ ,  $\pm 10\%$  (Class I Cr  $\geq 10\text{pF}$ )

$\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$  (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

Test Report: 201501 dated 18 August 2015

Issued by the Certification Body (CB): BSI

-- Attached Schedule: E1290\_F Issue 6 scope.pdf --

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

Authorized person:

Paul Turner

PT

bsi.



The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.

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# 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.: 6

Revision Date: 2020/02/21

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### Scope of Activity:

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

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

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

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

Plating of chip capacitor terminations  
Gusu Electronics (Suzhou) Co., Ltd.  
No.168, Fengbeidang Road  
Beiqiao Sub-District  
Xiangcheng  
Suzhou  
Jiangsu  
China

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BSI, Kitemark Court Davy Avenue Knowlhill Milton Keynes MK5 8PP UK

