



IECQ QC 32100-A001

Edition 5.0 2022-05

IECQ ASSESSMENT SPECIFICATION

IEC Quality Assessment System for Electronic Components (IECQ System)

**Multilayer Ceramic Capacitors: C0G, dielectric constant range 10 - 100
X7R, dielectric constant range 1000 - 4000**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

FOREWORD

The IECQ Quality Assessment System for Electronic Components (IECQ) is composed of those member countries of the International Electrotechnical Commission (IEC) who wish to take part in a harmonised system for electronic components of assessed quality. IECQ is also known in some member countries as IECQ.

The object of the System is to facilitate international trade by the harmonisation of the specifications and quality assessment procedures for electronic components and by the grant of an internationally recognised Mark, or Certificate of Conformity. The components produced or services provided under the system are thereby acceptable in all member countries without further testing.

This Assessment Specification is based upon the requirements of IEC Publication IECQ 03-3, and has been prepared by:

Knowles (UK) Ltd
Hethel Engineering Centre
Chapman Way, Hethel
Norwich, Norfolk
NR14 8FB
England

and published under authority of:

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

Amendment Record

Issue 2: Added P16 test requirement

Issue 3: Changed Table 2, P9 – Resistance to Soldering Heat, periodicity from 3 to 12 months

Issue 4: Updated Syfer name change to Knowles, update address for both Knowles and BSI.

Issue 5: IEC logo updated on title page. Changed IECQ logo and reference under logo, Removed withdrawn specification QC 001002-2.

Replaced reference in table 1 from CECC 32100 replaced by BS EN 60384-21 & BS EN 60384-22

Replaced reference in table 1 from BS EN 132100 replaced by BS EN IEC 60384-1:2021

Purpose

This IECQ assessment specification (AS) has been prepared to enable the certification of surface mountable multilayer ceramic capacitors against the general requirements based on CECC 32100 and CECC 32101-801 as modified and enhanced by this AS and an associated CS (e.g.: QC 32100-C001).

Requirements

The requirements for IECQ Component Specifications as detailed in IECQ 03-3

It should be noted that IECQ are not responsible for manufacturers declarations made in data sheets which fall outside the limits of approval detailed in IECQ certificates.

This Assessment Specification is intended for use with applicable IECQ Component Specifications. E.g., QC 32100-C001