

Zertifikat *Certificate*

Zertifikatsnummer Certificate No.:

R 60186744 0002

Berichtsnummer Report No.:

HU26FW29 002

Genehmigungsinhaber License Holder:

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

Fertigungsstätte Manufacturing Site:

Knowles Electronics
(Suzhou) Co. Ltd.
No 20 Chunxing Road
Xiangcheng District
215131 Suzhou
P.R. China

Prüfzeichen Test Mark:


Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111314120

Geprüft nach Tested according to:

EN IEC 60384-14:2023

Geräteidentifikation
Product Identification
Produkt:

Capacitor

Product:

(Multi-Layer Ceramic Capacitor)

Modell:

Modelle sind auf nächste(r) Seite(n) gelistet

Type:

Type designation(s) are listed on the next page(s)

Technische Daten:

Rated voltage.....: 250 V a.c./250 V a.c.

Technical Data:

Rated frequency.....: 50/60 Hz

Dielectric class...: Class II (X7R)

Type code.....: B16 or M16 or B56 or M56

Class.....: Y2/X1

Rated capacitance...: 150 pF - 4,7 nF

Trademark.....: SYFER, knowles

This certificate is Modification No. 1 for R 60186744 0001, issued
2026-03-30, due to new dielectric/release code
(X7R Precious metal AECQ, X7R Base metal AECQ) added.

Gültig ab:
Valid from:
Zertifizierungsstelle:
Certification body:

Ausstellungsdatum: 2026-08-10
Date of issue:

Mózes Tibor

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

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R 60186744 0002

Berichtsnummer *Report No.:*

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Produkt *Product:*

Capacitor
(Multi-Layer Ceramic Capacitor)

Modell *Type:*

Bezeichnung *Designation:*

2220bA25ddddddefgB16; 2220bA25ddddddefgM16; 2220bA25ddddddefgB56;
2220bA25ddddddefgM56

Type nomenclature

2220 b A25 dddd e f g hhh ***, where

- "2220" is Type number / Size reference
- "b" means the Protection termination, can be:
 - Y: FlexiCap termination base with Ni Barrier. RoHS compliant. (100% matte tin plating)
 - H: FlexiCap termination base with Ni Barrier. (Tin/lead plating with a minimum of 10% lead)
 - J: Silver base with Nickel Barrier. RoHS compliant. (100% matte tin plating)
 - A: Silver base with Nickel Barrier. (Tin/lead plating with a minimum of 10% lead)
- "A25" means the Voltage rating: 250 V a.c.
- "dddd" means the Capacitance value, can be:
 - First digit: 0 (or, if capacitance <10 pF, first significant figure of capacitance value)
 - Second digit: First significant figure of capacitance value (or, if cap <10 pF, "P" to signify units of pF)
 - Third digit: Second significant figure of capacitance value
 - Fourth digit: Number of zeros following, e.g. 0102 = 1000 pF.
- "e" means the Capacitance tolerance code, can be:
 - J = $\pm 5\%$ • K = $\pm 10\%$ • M = $\pm 20\%$
- "f" means the Dielectric/release code, can be:
 - X: X7R Precious metal • E: X7R Precious metal AECQ
 - J: X7R Base metal • S: X7R Base metal AECQ
- "g" means the Packaging, can be:
 - T: 178mm (7") reel • R: 330mm (13") reel • B: Bulk pack - tubs
- "hhh" means Type of capacitor, can be:
 - B16 or B56: Syfer Type A
 - M16 or M56: Syfer Type A Open Mode

*** Represents a three character suffix code, which will be allocated by Knowles when needed for specific customer requirements. This does not change the specifications defined hereon, complies with Knowles safety capacitor req. and also is in accordance with IEC 60384-14.

