

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 60156291

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0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
	0001--HU21LLWG 001	22.04.2021	(day/mo/yr)

Genehmigungsinhaber *License Holder*

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

Fertigungsstätte *Manufacturing Plant*

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

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 60384-14:2013+A1

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

Capacitor X7R Filter Capacitor Family

Syfer family code	Class	Size	Capacitor range	
1808uA25vwxy*zSYX	Y2/X1	1808	82pF - 1,8nF	15
1812uA25vwxy*zSYX	Y2/X1	1812	100pF - 4,7nF	
2211uA25vwxy*zSYX	Y2/X1	2211	100pF - 3,9nF	
2215uA25vwxy*zSYX	Y2/X1	2215	2,7nF - 6,8nF	
2220uA25vwxy*zSYX	Y2/X1	2220	150pF - 6,8nF	
2220uA25vwxy*zSYM	Y2/X1	2220	150pF - 6,8nF	

Rated voltage (UR): AC 250V / AC 305V / DC 1kV
Frequency: 50/60Hz
Dielectric: X7R
Temperature range: -55°C / +125°C
Capacitance Tolerance: ±5%; ±10%; ±20%

Replaces certificate: R 60153661 0001

See details of models and their ratings in Appendix 1.

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ANLAGE (Appendix): Appendix 1

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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Zertifizierungsstelle

Gergely Bakos



Zertifikat / Certificate
S 60156291

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HU21LLWG 001 22.04.2021

Technische Daten / Technical data

List of model variants and their ratings: (keys for the type designation)

**1808uA25vwxy*zSYX; 1812uA25vwxy*zSYX; 2211uA25vwxy*zSYX; 2215uA25vwxy*zSYX;
2220uA25vwxy*zSYX; 2220uA25vwxy*zSYM:**

Example: 1808 Y A25 0102 K J T SYX ***

Type No/Size ref	1808	Y	A25	0102	K	J	T	SYX ***
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Protection Termination

Y: **FlexiCap** termination base with Ni Barrier (100% matte tin plating). RoHS compliant.

H: **FlexiCap** termination base with Ni Barrier (Tin/ Lead plating with min 10% Lead).

J: Silver base with Nickel Barrier (100% Matte Tin Plating). RoHS compliant.

A: Silver base with Nickel Barrier (Tin/ Lead Plating with min 10% Lead)

Voltage: A25 = 250Vac (Y2)/305Vac X2

Capacitance Value

First digit - 0 (or if cap < 10pF first significant figure of cap value)
 Second digit - First significant figure of capacitance value (or if cap < 10pF "P" to signify units of picofarads)
 Third digit - Second significant figure of capacitance value
 Fourth digit - Number of zeros following. eg. 0102 = 1000pF

SYX = 305 Vac X1, 250Vac Y2 Safety Surge tested capacitors. SYM = Open mode

Packaging
 T: 178mm (7") reel
 R: 330mm (13") reel
 B: Bulk pack - tubs

Dielectric/ Release codes
 J: X7R S: X7R AECQ
 G: C0G K: C0G AECQ

Stable class (X7R)		Ultra stable (C0G)	
± 5%	J	± 0.10 pF	B
± 10%	K	± 0.25 pF	C
± 20%	M	± 0.50 pF	D
		± 1%	F
		± 5%	G
		± 10%	J
		± 20%	K

*** 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 requirements and also is in accordance with IEC 60384-14


G. Bakos