

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 60153659

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue

0001--28254289 001

22.12.2020

(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 COG Filter Capacitor Family

Syfer family code	Class	Size	Capacitor range	
1808uA25vwxxy*zS2X	X2	1808	10pF - 1nF	14
1808uA25vwxxy*zSYX	Y2/X1	1808	5,6pF - 220pF	
1812uA25vwxxy*zSYX	Y2/X1	1812	5,6pF - 820pF	
2211uA25vwxxy*zSYX	Y2/X1	2211	4,7pF - 1nF	
2215uA25vwxxy*zSYX	Y2/X1	2215	820pF - 1nF	

Rated voltage (UR): AC 250V / AC 305V * / DC 1kV
(* not for 1808uA25vwxxy*zS2X)

Frequency: 50/60Hz

Dielectric: COG

Temperature range: -55°C / +125°C

Capacitance Tolerance: $\pm 0,10\text{pF}$; $\pm 0,25\text{pF}$; $\pm 0,50\text{pF}$;
 $\pm 1\%$; $\pm 5\%$; $\pm 10\%$; $\pm 20\%$

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.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Zertifizierungsstelle

Gergely Bakos



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Technische Daten / Technical data

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

1808uA25vwxy*zS2X:

Example: 1808 Y A25 0102 K J T S2X ***

Type No/Size ref	1808	Y	A25	0102	K	J	T	S2X ***
Protection								S2X = 250Vac X2 Safety tested Surge capacitors.
Termination								Packaging
Y: FlexiCap™ termination base with Ni Barrier (100% matte tin plating). RoHS compliant.								T: 178mm (7") reel
H: FlexiCap™ termination base with Ni Barrier (Tin/ Lead plating with min 10% Lead).								R: 330mm (13") reel
J: Silver base with Nickel Barrier (100% Matte Tin Plating). RoHS compliant.								B: Bulk pack - tubs
A: Silver base with Nickel Barrier (Tin/ Lead Plating with min 10% Lead)								Dielectric/ Release codes
Voltage: A25 = 250Vac (X2)								J: X7R S: X7R AECQ
Capacitance Value								G: C0G K: C0G AECQ
First digit - 0 (or if cap < 10pF first significant figure of cap value)								Capacitance Tolerance code
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								

*** 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


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

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

Type No/Size ref _____

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

*** 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

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

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

Capacitance Tolerance code

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



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