

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 60153664

Blatt *Sheet*
0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
	0001--28254624 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 X7R Filter Capacitor Family

Syfer family code	Class	Size	Capacitor range	
2220uA30vwx*zs3X	X2	1808	10nF - 56nF	12
1808uA25vwx*zsYS	Y2/X1	1808	82pF - 1,8nF	
1812uA25vwx*zsYS	Y2/X1	1812	100pF - 3,9nF	

Rated voltage (UR):

2220uA30vwx*zs3X: AC 305V (X2) / DC 1kV
1808uA25vwx*zsYS: AC 250V (Y2) / AC 305V (X1) / DC 1kV
1812uA25vwx*zsYS: AC 250V / AC 305V / DC 1kV

Frequency: 50/60Hz

Dielectric: X7R

Temperature range: -55°C / +125°C

Capacitance Tolerance: ±5%; ±10%; ±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.

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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)

2220uA30vwxYzS3X:

Example: 2220 Y A30 0102 K J T S3X ***

Type No/Size ref	2220	Y	A30	0102	K	J	T	S3X ***
Protection								
Termination								
Y: FlexiCap™ termination base with Ni Barrier (100% matte tin plating). RoHS compliant.								S3X = 305Vac X2 Safety tested Surge capacitors.
H: FlexiCap™ termination base with Ni Barrier (Tin/ Lead plating with min 10% Lead).								Packaging
J: Silver base with Nickel Barrier (100% Matte Tin Plating). RoHS compliant.								T: 178mm (7") reel
								R: 330mm (13") reel
								B: Bulk pack - tubs
A: Silver base with Nickel Barrier (Tin/ Lead Plating with min 10% Lead)								Dielectric/ Release codes
								J: X7R S: X7R AECQ
								G: C0G K: C0G AECQ
Voltage: A30 = 305Vac (X2)								Capacitance Tolerance code
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								

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


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1808uA25vwxy*zSYS; 1812uA25vwxy*zSYS:

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

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

SYS = 305 Vac X1, 250Vac Y2 Safety
Surge tested capacitors qualified only for use
in equipment within the scope of IEC62368

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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