

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 60144894

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0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
	0001--28236316 004	03.08.2020	

## 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*



Type Approved  
Safety  
Regular Production  
Surveillance

www.tuv.com  
ID 1111220346

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

Type designation:	Class:	Size:	Capacitor range:	
2220wA25xyJzB16	Y2/X1	2220	150pF - 4,7nF	11
2220wA25xyJzB56	Y2/X1	2220	150pF - 4,7nF	

Rated voltage (UR): AC 250V  
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.

Replaces certificate: R 60116282 0001-0002

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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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## Technische Daten / Technical data

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

### 2220wA25xyJzB16 and 2220wA25xyJzB56:

Example: ..... 2220 Y A25 0471 J X T B16

Type No/Size ref	2220	Y	A25	0471	J	X	T	B16	
Termination									
Y: <b>FlexiCap</b> ™ termination base with Ni Barrier (100% matte tin plating). RoHS compliant.									
H: <b>FlexiCap</b> ™ 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									
Capacitance Value									
First digit - 0									
Second digit - First significant figure of capacitance value									
Third digit - Second significant figure of capacitance value									
Fourth digit - Number of zeros following. eg. 0102 = 1000pF									

  

B16 = Syfer Type A.	
B56 = Syfer Type A.	
B17 = Syfer Type B.	
Packaging	
T: 178mm (7") reel	
R: 330mm (13") reel	
B: Bulk pack - tubs	
Dielectric	
X: X7R Precious metal	
J: X7R Base metal	
Capacitance Tolerance code	

**Stable class (X7R)**

± 5%	J
± 10%	K
± 20%	M

  
G. Bakos