

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 60153661

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue

0001--28254308 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*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111233477

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	
1808uA25vwx* zSYX	Y2/X1	1808	82pF - 1,8nF	14
1812uA25vwx* zSYX	Y2/X1	1812	100pF - 4,7nF	
2211uA25vwx* zSYX	Y2/X1	2211	100pF - 3,9nF	
2215uA25vwx* zSYX	Y2/X1	2215	2,7nF - 6,8nF	
2220uA25vwx* zSYX	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%

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 60153661

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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:**

Ordering Information

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

<p>Type No/Size ref _____</p> <p>Protection _____</p> <p>Termination _____</p> <p>Y: FlexiCap™ termination base with Ni Barrier (100% matte tin plating). RoHS compliant.</p> <p>H: FlexiCap™ termination base with Ni Barrier (Tin/ Lead plating with min 10% Lead).</p> <p>J: Silver base with Nickel Barrier (100% Matte Tin Plating). RoHS compliant.</p> <p>A: Silver base with Nickel Barrier (Tin/ Lead Plating with min 10% Lead)</p> <p>Voltage: A25 = 250Vac (Y2)/305Vac X2</p> <p>Capacitance Value _____</p> <p>First digit - 0 (or if cap < 10pF first significant figure of cap value)</p> <p>Second digit - First significant figure of capacitance value (or if cap < 10pF "P" to signify units of picofarads)</p> <p>Third digit - Second significant figure of capacitance value</p> <p>Fourth digit - Number of zeros following. eg. 0102 = 1000pF</p>	<p>K J T SYX ***</p> <p>SYX = 305 Vac X1, 250Vac Y2 Safety Surge tested capacitors.</p> <p>Packaging</p> <p>T: 178mm (7") reel</p> <p>R: 330mm (13") reel</p> <p>B: Bulk pack - tubs</p> <p>Dielectric/ Release codes</p> <p>J: X7R S: X7R AECQ</p> <p>G: C0G K: C0G AECQ</p> <p>Capacitance Tolerance code</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">Stable class (X7R)</th> <th colspan="2">Ultra stable (C0G)</th> </tr> </thead> <tbody> <tr> <td>± 5%</td> <td>J</td> <td>± 0.10 pF</td> <td>B</td> </tr> <tr> <td>± 10%</td> <td>K</td> <td>± 0.25 pF</td> <td>C</td> </tr> <tr> <td>± 20%</td> <td>M</td> <td>± 0.50 pF</td> <td>D</td> </tr> <tr> <td></td> <td></td> <td>± 1%</td> <td>F</td> </tr> <tr> <td></td> <td></td> <td>± 5%</td> <td>G</td> </tr> <tr> <td></td> <td></td> <td>± 10%</td> <td>J</td> </tr> <tr> <td></td> <td></td> <td>± 20%</td> <td>K</td> </tr> </tbody> </table>	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	<p>_____ SYX = 305 Vac X1, 250Vac Y2 Safety Surge tested capacitors.</p> <p>_____ Packaging</p> <p>_____ T: 178mm (7") reel</p> <p>_____ R: 330mm (13") reel</p> <p>_____ B: Bulk pack - tubs</p> <p>_____ Dielectric/ Release codes</p> <p>_____ J: X7R S: X7R AECQ</p> <p>_____ G: C0G K: C0G AECQ</p> <p>_____ Capacitance Tolerance code</p>
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*** 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