

Safety Standard Certified Ceramic Capacitors
(安全規格認定セラミックコンデンサ)

Type KX

X1 : 440 Vac(r.m.s.) Y1 : 250 Vac(r.m.s.)

Safety Standard Certification (安全規格認証)	Standard No. (規格番号)	Certificate No.* (認定番号)	Attached Page No. (添付ページ番号)
UL	UL60384-14	E37921	b - 1
CSA	CSA E60384-14	1343810	b - 2
VDE	EN IEC 60384-14	40002831	b - 3
BSI	EN IEC 62368-1 EN IEC 60384-14	KM 37901	b - 4
SEMKO	EN IEC 60384-14	SE-S-2500779	b - 5
DEMKO		D-11320	b - 6
FIMKO		FI/42430	b - 7
NEMKO		P25228500	b - 8
ESTI		25.0787	b - 9
IMQ		V4069	b - 10
CQC		GB/T6346.14	CQC04001011643
KTC	KC60384-14	HU03008-4003(X1) HU03008-4004(Y1)	b - 12

* Above Certified No. may be changed on account of the revision of standards and the renewal of certification
(* 認定番号は規格番号の改訂、取得範囲の変更により変わることがあります。)

Fixed Capacitors for Use in Electronic Equipment - Component

COMPANY

MURATA MFG CO LTD

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan

E37921

Marking: Company name or trademark , and model designation.

Note: For additional marking information, refer to the [Guide Information Page](#).

View model for additional information

Class X1 and Class Y2 Capacitors, Model(s): KJ may be followed by M for +/-20%, K for +/-10%.

Class X1/Y1 Capacitors, Model(s): EA may be followed by K ($\pm 10\%$) (for 10~47pF), K ($\pm 10\%$) or M ($\pm 20\%$) (for 100~680pF), M ($\pm 20\%$) (for 1000~2200pF).

Class X1/Y1 Capacitors, Model(s): KL may be followed by J ($\pm 5\%$), K ($\pm 10\%$) or M ($\pm 20\%$) for capacitance tolerance.

Class X1/Y1 Capacitors, Model(s): RA may be followed by J ($\pm 5\%$), K ($\pm 10\%$) or M ($\pm 20\%$) for capacitance tolerance.

Class X1/Y1 Capacitors, Model(s): RB may be followed by K ($\pm 10\%$) or M ($\pm 20\%$) for capacitance tolerance.

Class X1/Y1 Capacitors, Ceramic Disk Type, Model(s): KX may be followed by J for +/-5%. K for +/-10%. M for +/-20%.

Class X1/Y2 Capacitors, Model(s): IF may be followed by K ($\pm 10\%$).

Class X1/Y2 Capacitors, Model(s): SA may be followed by J ($\pm 5\%$), K ($\pm 10\%$) or M ($\pm 20\%$) for capacitance tolerance.

Class X1/Y2 Capacitors, Ceramic Disk Type, Model(s): KH may be followed by K for +/-10%. M for +/-20%.

Class X1/Y2 Capacitors, Ceramic Disk Type, Model(s): KY may be followed by J for +/-5%. K for +/-10%. M for +/-20%.

Class X1/Y2 Capacitors, Surface Mount Capacitors, Model(s): GF series for type GA342 may be followed by J ($\pm 5\%$) (for 10~82pF), K ($\pm 10\%$) (for 100~4700pF).

Class X1/Y2 Capacitors, Surface Mount Capacitors, Model(s): GF series for type GA352, GA355 may be followed by J ($\pm 5\%$) (for 10~82pF), K ($\pm 10\%$) (for 100~4700pF).

Class X1/Y2 Capacitors, Surface Mount Capacitors, Model(s): ME may be followed by K ($\pm 10\%$) (for 100~4700pF), M($\pm 20\%$) (for 5600~10000pF).

Class X2 Capacitors, Model(s): GB+GA35****GB****W*** (* may be space, 0 to 9, A to Z) with Capacitances of 10000, 15000, 22000, 33000, 47000, or 56000 pF with tolerance K.

Last Updated on 2024-04-27

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Model KX

File Number: E37921

COMPANY

MURATA MFG CO LTD

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan

MODEL INFO

KX may be followed by J for +/-5%. K for +/-10%. M for +/-20%.

Class X1/Y1 Capacitors, Ceramic Disk Type

GENERAL										
US Standard	Canadian Standard	Capacitor Class	Voltage (V)	AC or DC	Capacitance	Tolerance (%)	Resistance for RC Devices	Lower Temperature (°C)	Upper Temperature (°C)	Additional Robustness Grades
--	--	X1	250/440	AC	10 ~ 4700 pF	+/-20%		-40	125	
--	--	Y1	250/300	AC	10 ~ 4700 pF	+/-20%		-40	125	

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Certificate of Compliance

Certificate:	1343810	Master Contract:	169822
Project:	80202803	Date Issued:	2025-03-20
Issued to:	Murata Manufacturing Co., Ltd. 10-1 Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617- 8555 Japan	Issued by:	<i>Martin Buchanan</i> Martin Buchanan, P. Eng.
	Attention: Keiichi Tokuda		

The products listed below are eligible to bear the CSA Mark shown



PRODUCTS

Class 2221 51 AUDIO AND VIDEO EQUIPMENT - Accessories and Parts for Electronic Products

Capacitors, type KX, KX reduced and KX 2nd reduced, X1 440V~, Y1 300V~, 40/125/21/C for 50-60Hz systems with the following capacitance ratings:

Model(s)
10pF, 15pF, 22pF, 33pF, 47pF, 68pF, 100pF, 150pF, 220pF, 330pF, 470pF, 680pF, 1000pF, 1500pF, 2200pF, 3300pF, 3900pF, 4700pF

The subject capacitors are Certified for use only as components of other Certified equipment where the suitability of the combination is to be determined by CSA.

APPLICABLE REQUIREMENTS



Certificate: 1343810

Master Contract: 169822

Project: 80202803

Date Issued: 2025-03-20

CSA E60384-14:14 - Third Edition - Fixed capacitors for use in electronic equipment — Part 14: Sectional specification — Fixed capacitors for electromagnetic interference suppression and connection to the supply mains

CSA E60384-1:14 - Third Edition - Fixed capacitors for use in electronic equipment — Part 1: Generic specification

ZEICHENGENEHMIGUNG MARKS APPROVAL

Murata Mfg. Co., Ltd.
(Headquarters)
10-1 Higashikotari 1-Chome
NAGAOKAKYO-SHI, KYOTO 617-8555
Japan

ist berechtigt, für ihr Produkt /
is authorized to use for their product

**Festkondensator zur Unterdrückung elektromagnetischer
Störungen, geeignet für Netzbetrieb**
***Fixed capacitor for electromagnetic interference
suppression and connection to the supply mains***

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

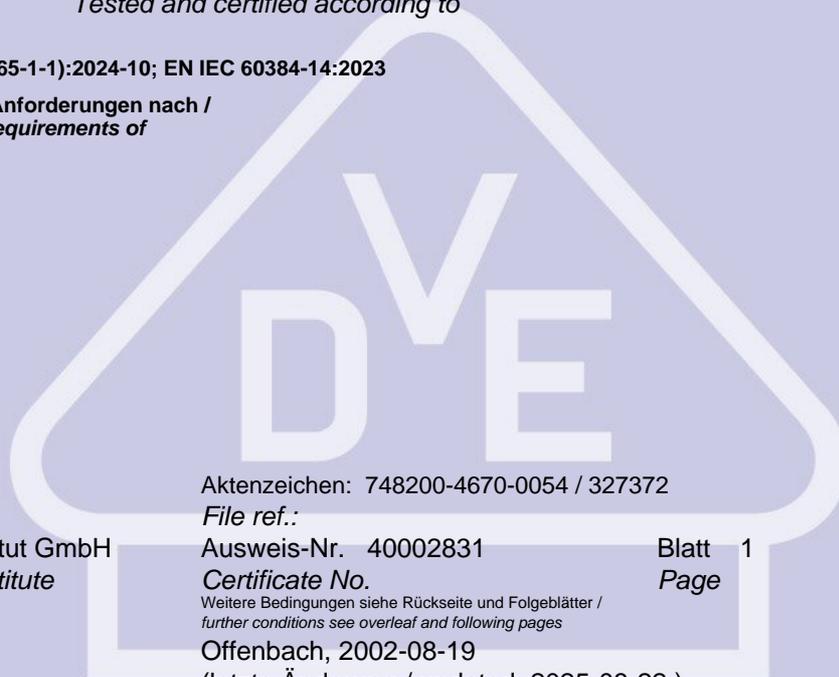


Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN IEC 60384-14 (VDE 0565-1-1):2024-10; EN IEC 60384-14:2023

Das Produkt erfüllt auch die Anforderungen nach /
The product also fulfills the requirements of

IEC 60384-14:2023



Aktenzeichen: 748200-4670-0054 / 327372

File ref.:

Ausweis-Nr. 40002831

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2002-08-19

(letzte Änderung / updated 2025-08-22)

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

T. Baumann

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Murata Mfg. Co., Ltd. (Headquarters), 10-1 Higashikotari 1-Chome, NAGAOKAKYO-SHI, KYOTO 617-8555,
JAPAN

Aktenzeichen / *File ref.*

748200-4670-0054 / 327372 / TL3 / DAT

letzte Änderung / *updated*

2025-08-22

Datum / *Date*

2002-08-19

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40002831.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40002831.

Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb

Fixed capacitor for electromagnetic interference suppression and connection to the supply mains

Typ(en) / *Type(s)*

- a) **KX, standard version**
- b) **KX, reduced version**
- c) **KX, 2nd reduced version**

Weitere Einzelheit(en)

siehe Anlage Nr. 200 vom 2025-03-17,
siehe Anlage Nr. 600, 700 vom 2025-08-22.

Further details

*see appendix no. 200 dated 2025-03-17,
see appendix no. 600, 700 dated 2025-08-22.*

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40002831

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Murata Mfg. Co., Ltd. (Headquarters), 10-1 Higashikotari 1-Chome, NAGAOKAKYO-SHI, KYOTO 617-8555,
JAPAN

Aktenzeichen / *File ref.*

748200-4670-0054 / 327372 / TL3 / DAT

letzte Änderung / *updated*

2025-08-22

Datum / *Date*

2002-08-19

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40002831.

This supplement is part of the Certificate No. 40002831.

Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb

***Fixed capacitor for electromagnetic interference
suppression and connection to the supply mains***

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*

30002166

Murata Electronics (Thailand) Ltd.
Northern Region Ind. Est., 63 Moo 4
Tambol Ban-Klang Amphur Muang
LAMPHUN 51000
THAILAND

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Infoblatt /
Certificate No. / Info sheet
40002831

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Murata Mfg. Co., Ltd. (Headquarters), 10-1 Higashikotari 1-Chome, NAGAOKAKYO-SHI, KYOTO 617-8555, JAPAN

Aktenzeichen / *File ref.*

748200-4670-0054 / 327372 / TL3 / DAT

letzte Änderung / *updated*

2025-08-22

Datum / *Date*

2002-08-19

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40002831.

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Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH (www.vde.com\AGB-Institut). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

Die Genehmigung ist so lange gültig wie die VDE Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

Approval to use the legally protected Mark of the VDE as shown on the first page:

Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute (www.vde.com\terms-institute). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.

The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).

The validity period of a VDE GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE GS-Mark Approval may be shortened.

Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40002831.
 This supplement is only valid in conjunction with page 1 of the Certificate No. 40002831

Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb
Fixed capacitor for electromagnetic interference suppression and connection to the supply mains

Typ(en) Type(s)	a) KX, standard version b) KX, reduced version c) KX, 2nd reduced version		
Bemessungskapazität Rated capacitance	a) 10 pF; 15 pF; 22 pF; 33 pF; 47 pF; 68 pF; 100 pF; 150 pF; 220 pF; 330 pF; 470 pF; 680 pF; 1000 pF; 1500 pF; 2200 pF; 3300 pF; 3900 pF; 4700 pF b) 100 pF; 150 pF; 220 pF; 330 pF; 470 pF; 680 pF; 1000 pF; 1500 pF; 2200 pF; 3300 pF; 3900 pF; 4700 pF c) 100 pF; 150 pF; 220 pF; 330 pF; 470 pF; 680 pF		
Bemessungsspannung Rated voltage	X1: AC 440 V Y1: AC 250/300 V		
Kondensatorklasse und -unterklasse Capacitor class and subclass	X1 / Y1		
Grenzabweichung der Bemessungskapazität Tolerance of rated capacitance	±5% (J) oder/or ±10% (K) oder/or ±20% (M)		
Klimakategorie Climatic category	40/125/21		
Kategorie der passiven Entflammbarkeit Passive flammability category	C		
Keramikart Type of ceramic	SL (10 pF bis/to 68 pF) B (100 pF bis/to 1000 pF) or (100 pF bis/to 680 pF) E (1000 pF bis/to 4700 pF)		
Temperaturcharakteristik Temperature characteristic			
Bemessungswiderstand (nur bei RC-Kombinationen) Rated resistance value (for RC-units only)			
Bemessungsleistung (nur bei RC-Kombinationen) Rated power (for RC-units only)			
Bemessungstemperatur bei Durchführungs-kondensatoren und RC-Kombinationen Rated temperature for lead-through capacitors and RC-units			
Bemessungsstrom des Durchführungsleiters bei Durchführungskondensatoren Rated current of the conductor for lead-through capacitors			
Genehmigung für Gleichspannungs-anwendungen nach Anhang H Approval for d.c. applications according to Annex H	<input type="checkbox"/>	ja yes	Bemessungsgleichspannung DC ____ V d.c. rated voltage
	<input checked="" type="checkbox"/>	nein no	



Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40002831.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40002831

Genehmigung für Feuchtebeständigkeitsklasse nach Anhang I <i>Approval for humidity robustness grade according to Annex I</i>	<input type="checkbox"/>	IA	21 Tage bei 40 °C / 93 % r.F. mit angelegter Bemessungsspannung <i>21 days at 40 °C / 93 % r.h. with rated voltage applied</i>
	<input type="checkbox"/>	IB	168 Stunden bei 85 °C / 85 % r.F. mit angelegter Bemessungsspannung <i>168 hours at 85 °C / 85 % r.h. with rated voltage applied</i>
	<input type="checkbox"/>	IIA	56 Tage bei 40 °C / 93 % r.F. mit angelegter Bemessungsspannung <i>56 days at 40 °C / 93 % r.h. with rated voltage applied</i>
	<input type="checkbox"/>	IIB	500 Stunden bei 85 °C / 85 % r.F. mit angelegter Bemessungsspannung <i>500 hours at 85 °C / 85 % r.h. with rated voltage applied</i>
	<input type="checkbox"/>	IIIA	56 Tage bei 60 °C / 93 % r.F. mit angelegter Bemessungsspannung <i>56 days at 60 °C / 93 % r.h. with rated voltage applied</i>
	<input type="checkbox"/>	IIIB	1.000 Stunden bei 85 °C / 85 % r.F. mit angelegter Bemessungsspannung <i>1.000 hours at 85 °C / 85 % r.h. with rated voltage applied</i>
	<input checked="" type="checkbox"/>	keine <i>none</i>	
Warenzeicheninhaber <i>Trademark holder</i>	Murata MFG. Co., Ltd.		

Kitemark™ Certificate

This is to certify that:

Murata Manufacturing Co Ltd
10-1 Higashikotari 1-chome
Nagaokakyo-shi
Kyoto
617-8555
Japan

Holds Certificate Number:

KM 37901

In respect of:

BS EN IEC 62368-1
Audio/video, information and communication technology equipment

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI:

Shahm Barhom, Group Product Certification Director

First Issued: 1997-10-09

Latest Issue: 2024-12-05

Effective Date: 2024-12-08

Expiry Date: 2027-12-07



Page: 1 of 5

Kitemark™ Certificate

No. KM 37901

Capacitor Types

KH Series

KX Series

KY Series

Manufacturing Plants

Murata Electronics (Thailand) Ltd

Murata Electronics (Thailand) Ltd

Murata Electronics (Thailand) Ltd

Standards

1. BS EN IEC 62368-1:2020+A11:2020
Sub-clauses 5.4.4.2 (enclosure thickness ≥ 0.4 mm), 5.5.2.1 and G.11.2.
2. BS EN IEC 60384-14:2023
Sub-clauses as listed in Table 15 of that standard.

Manufacturing Plant address:

Murata Electronics (Thailand) Ltd
Northern Region Industrial Estate
63 Moo 4, Tambol Ban-Klang
Amphur Muang, Lamphun 51000
Thailand

Periodic Product Verification testing (PVT) carried out at:

Izumo Murata Mfg Co Ltd
2308 Kaminaoe
Hikawa-cho
Izumo-shi
Shimane
699-0696
Japan

First Issued: 1997-10-09

Latest Issue: 2024-12-05

Effective Date: 2024-12-08

Expiry Date: 2027-12-07

Page: 2 of 5

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A member of BSI Group of Companies.

Kitemark™ Certificate

No. KM 37901

KH Series, isolating ceramic capacitors (standard and reduced sizes).

Sub-Class	Rated Voltage	Climatic Category	Type test impulse test voltage of the capacitor kV peak	Type test r.m.s. test voltage of the capacitor kV r.m.s.
X1	250 Vac 440 Vac	40/125/21 C	5	1.5
Y2	250 Vac 300 Vac			

Type	Capacitance (pF)	Tolerance (+/- %)	Ceramic
101 (K or M)	100	10 or 20	B
151 (K or M)	150	10 or 20	B
221 (K or M)	220	10 or 20	B
331 (K or M)	330	10 or 20	B
471 (K or M)	470	10 or 20	B
681 (K or M)	680	10 or 20	B
102 (K or M)	1000	10 or 20	B
102 (M)	1000	20	E
152 (M)	1500	20	E
222 (M)	2200	20	E
332 (M)	3300	20	E
392 (M)	3900	20	E
472 (M)	4700	20	E
472 (M)	4700	20	F
103 (M)	10 000	20	F

First Issued: 1997-10-09

Latest Issue: 2024-12-05

Effective Date: 2024-12-08

Expiry Date: 2027-12-07

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Kitemark™ Certificate

No. KM 37901

KX Series, isolating ceramic capacitors (standard and reduced sizes).

Sub-Class	Rated Voltage	Climatic Category	Type test impulse test voltage of the capacitor kV peak	Type test r.m.s. test voltage of the capacitor kV r.m.s.
X1	250 Vac 440 Vac	40/125/21 C	8	4
Y1	250 Vac 300 Vac			

Type	Capacitance (pF)	Tolerance (+/- %)	Ceramic
100 (J or K)	10	5 or 10	SL
150 (J or K)	15	5 or 10	SL
220 (J or K)	22	5 or 10	SL
330 (J or K)	33	5 or 10	SL
470 (J or K)	47	5 or 10	SL
680 (J or K)	68	5 or 10	SL
101 (K or M)	100	10 or 20	B
151 (K or M)	150	10 or 20	B
221 (K or M)	220	10 or 20	B
331 (K or M)	330	10 or 20	B
471 (K or M)	470	10 or 20	B
681 (K or M)	680	10 or 20	B
102 (K or M)	1000	10 or 20	B
102 (M)	1000	20	E
152 (M)	1500	20	E
222 (M)	2200	20	E
332 (M)	3300	20	E
392 (M)	3900	20	E
472 (M)	4700	20	E

First Issued: 1997-10-09

Latest Issue: 2024-12-05

Effective Date: 2024-12-08

Expiry Date: 2027-12-07

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Kitemark™ Certificate

No. KM 37901

KY Series, isolating ceramic capacitors (standard and reduced sizes).

Sub-Class	Rated Voltage	Climatic Category	Type test impulse test voltage of the capacitor kV peak	Type test r.m.s. test voltage of the capacitor kV r.m.s.
X1	250 Vac	40/125/21 C	5	1.5
Y2	250 Vac 300 Vac			

Type	Capacitance (pF)	Tolerance (+/- %)	Ceramic
100 (J or K)	10	5 or 10	SL
150 (J or K)	15	5 or 10	SL
220 (J or K)	22	5 or 10	SL
330 (J or K)	33	5 or 10	SL
470 (J or K)	47	5 or 10	SL
680 (J or K)	68	5 or 10	SL
101 (K or M)	100	10 or 20	B
151 (K or M)	150	10 or 20	B
221 (K or M)	220	10 or 20	B
331 (K or M)	330	10 or 20	B
471 (K or M)	470	10 or 20	B
681 (K or M)	680	10 or 20	B
102 (K or M)	1 000	10 or 20	B
102 (M)	1 000	20	E
152 (M)	1 500	20	E
182 (M)	1 800	20	E
222 (M)	2 200	20	E
332 (M)	3 300	20	E
392 (M)	3 900	20	E
472 (M)	4 700	20	E
103 (M)	10 000	20	F

First Issued: 1997-10-09

Latest Issue: 2024-12-05

Effective Date: 2024-12-08

Expiry Date: 2027-12-07

Page: 5 of 5

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).



CERTIFICATE

FOR EUROPEAN PRODUCT SAFETY

Reference No. SE-S-2500779

Capacitor for radio interference suppression

Type designation: KX

Certificate holder: Murata Manufacturing Co., Ltd.
10-1 Higashikotari 1-Chome
Nagaokakyo-shi, 617-8555 Kyoto-fu
Japan

**The product complies with
the standard(s):** EN IEC 60384-14:2023

Date of expiry: 19 September, 2030

EU Directive information:

Additional information in Appendix

Certification Body: Intertek Semko AB, Product Certification **Place:** Kista - Stockholm

Signed:  **Date:** 19 September, 2025

Quan Li

APPENDIX:

Reference No. SE-S-2500779

Technical Data:

Type designation	KX
Rated voltage (V)	440VAC X1, 250, 300VAC Y1
Input	10-4700pF +-5%, +-10%, +-20%
Class	X1/Y1
Trademark	
Test Report	2404537STO-001, 2404537STO-002, 2404537STO-003, 2404537STO-004, 2404537STO-005, 2404537STO-006
Product information	40/125/21/C.

Ceramic SL (standard size): 10, 15, 22, 33, 47, 68pF +-5%, +-10%

Ceramic B (standard size): 100, 150, 220, 330, 470pF +-10%, +-20%

Ceramic B (reduced size):
100, 150, 220, 330, 470, 680, 1000pF +-10%, +-20%

Ceramic B (2nd reduced size):
100, 150, 220, 330, 470, 680pF +-10%, +-20%

Ceramic E (standard and reduced size): 1000, 1500, 2200, 3300, 3900,
4700pF +-20%

Manufacturing Sites:

Murata Electronics (Thailand) Ltd.
Northern Region Industrial Estate
63 Moo 4 Tambol Ban-Klang
Amphur Muang Lamphun 51000, Thailand

This certificate replaces previously issued ref. SE-S-2101013 dated 19 July 2021.
A new certificate has been issued on account of updated standard.

Certification Body:

Intertek Semko AB, Product Certification

Place: Kista - Stockholm

Signed:



Date: 19 September, 2025

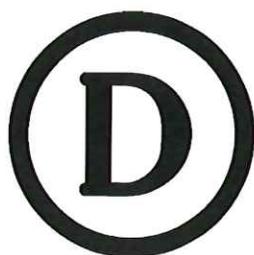
Quan Li

DEMKO Certificate

Certificate
D-11320

Issue date
2025-12-02

Expiration date
2028-08-31



This is to acknowledge that

MURATA MANUFACTURING CO LTD

10-1 Higashikotari 1-chome Nagaokakyo-shi, Kyoto, 617-8555
Japan

has had

Capacitor for radio interference suppression

KX

evaluated and meets the requirements of the standard
EN IEC 60384-14:2023

Test Report Nos.
SE-S-2500779 issued on 2025-09-19

Certification Manager
Thomas Wilson

**UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark,
Tel. +45 44 85 65 65**

This is to certify that representative sample(s) of the Product described herein ("Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the D-Mark Requirements. As specified in the respective sections below the Designated Certificate holder is entitled to use the D-Mark or its alternative for cables, for the Certified Product manufactured at the production site(s) identified above, in accordance with the D-Mark Service Agreement, including without limitation the D-Mark Testing and Certification Services Service Terms. Only those Products bearing the D-Mark should be considered as being covered by UL Solutions' D-Mark Service. This Certificate shall remain valid through the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the expiration date.

Certificate No. D-11320
Date of Issue 2025-12-02

DEMKO CERTIFICATE

TECHNICAL DETAILS

Production site(s)

MURATA ELECTRONICS (THAILAND) LTD
NORTHERN REGION INDUSTRIAL ESTATE
63 MOO 4 TAMBOL BAN-KLANG
AMPHUR MUANG LAMPHUN, Lamphun, 51000
Thailand

Trademark**Ratings**

Rated voltage (V) 440VAC X1, 250, 300VAC Y1
Input 10-4700pF +-5%, +-10%, +-20%

Additional Information

Technical Data:
Type designation KX
Class X1/Y1
Product information 40/125/21/C.

Ceramic SL (standard size): 10, 15, 22, 33, 47, 68pF +-5%, +-10%

Ceramic B (standard size): 100, 150, 220, 330, 470pF +-10%, +-20%

Ceramic B (reduced size):
100, 150, 220, 330, 470, 680, 1000pF +-10%, +-20%

Ceramic B (2nd reduced size):
100, 150, 220, 330, 470, 680pF +-10%, +-20%

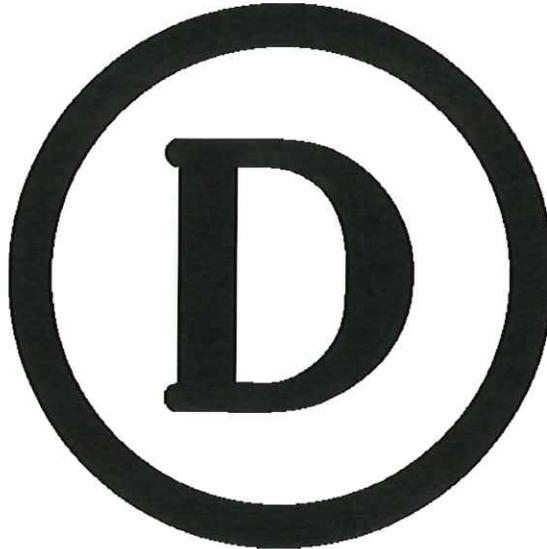
Ceramic E (standard and reduced size): 1000, 1500, 2200, 3300, 3900,
4700pF +-20%

This certificate replaces the earlier issued D-08838 dated 2021-10-19 .

Certificate No. D-11320
Date of Issue 2025-12-02

Certification Mark D-Mark

The D-Mark, as displayed below, shall appear on certified products only. Except as specified below the Mark shall be legible and no Minimum size is specified.



The size of the Mark may be reduced or enlarged on the condition that it remains readable and that the proportions of width and height are kept. The use of dark text for the D-Mark on light backgrounds and light text on dark backgrounds is permitted.

The D-Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Certificate Manufacturer's name or trademark and model number shall also appear elsewhere on the product

When putting the product on the EU market, the manufacturer's name, trademark or mark of origin must be affixed in a clearly visible location and position on the product, on the package and in the user manual. It can be affixed by label, be directly imprinted, or cast or molded into the product.

Where the size of the product does not allow the Mark, the manufacturer's name, trademark, mark of origin and model number to be legible, and appearance on a label is not desired, it is allowed to cast, stamp or mold the Mark into the product, in a size which is not visible to the naked eye, provided the legible Mark, the manufacturer's name, trademark or mark of origin and model number appears on the package and in the user manual.

Certificate No. D-11320
Date of Issue 2025-12-02

Alternate certification Mark for cables

As an alternative to the D-Mark specified above the alternate D-Mark, displayed below, can appear on certified cables only. Minimum size is not specified, as long as the mark is legible.

<DEMKO>

The alternate D-Mark may be cast, stamped or molded into the cable and continue throughout the length of the cable as specified in the applicable cable standard.

All content shall be in accordance with the details provided on this D-Mark Certificate.




CERTIFICATE FI/42430

Our Ref. HEL-CERT190300214-03

Product Fixed capacitor for electromagnetic interference suppression and connection to the supply mains

Type KX

Trademark 

Certificate Holder Murata Manufacturing Co., Ltd
10-1 Higashikotari 1-Chome Nagaokakyo-shi Kyoto-fu 617-8555, Japan

Technical information KX (X1 series): 440V~
KX (Y1 series): 250V~, 300V~
10-4700pF +-5%, +-10%, +-20%, 40/125/21/C

Other information See page 2

The product is certified according to the following standard(s) EN IEC 60384-14:2023

Validity This certificate is valid until 12 December 2030 provided that the Conditions for FI certification are met. This certificate includes the right to use the FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for FI certification are met.

Date of issue 12 December 2025

SGS Fimko Oy

Signature



Niklas Rönqvist
Certification Manager

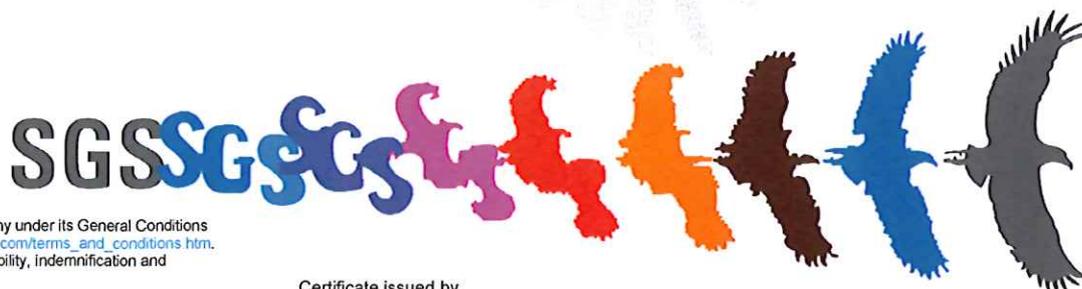
Page 1 of 2

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Certificate issued by

SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
t. +358 9 696 361 www.sgs.com
Business ID 0634247-4 Member of the SGS Group (SGS SA)





Page 2 of 2 to Certificate: FI/42430

Manufacturer	Murata Manufacturing Co., Ltd 10-1 Higashikotari 1-Chome Nagaokakyo-shi Kyoto-fu 617-8555, Japan
Manufacturing site	Murata Electronics (Thailand) Ltd. Northern Region Industrial Estate, 63 Moo 4, Tambol Ban-Klang Amphur Muang, Lamphun 51000, Thailand
Additional information	<p>The product has certificate SE-S-2500779 issued by Intertek Semko AB in accordance with the Nordic Certification Service system.</p> <p>Ceramic SL (standard size): 10, 15, 22, 33, 47, 68pF, +-5%, +-10% Ceramic B (standard size): 100, 150, 220, 330, 470pF, +-10%, +-20% Ceramic B (reduced size): 100, 150, 220, 330, 470, 680, 1000pF, +-10%, +-20% Ceramic B (2nd reduced size): 100, 150, 220, 330, 470, 680pF, +-10%, +-20% Ceramic E (standard and reduced size): 1000, 1500, 2200, 3300, 3900, 4700pF, +-20%</p> <p>This certificate replaces previous certificate FI/41217 dated 2021-10-12 due to renewal of the certificate.</p>
As shown in the Test Report(s) No(s):	2404537STO-001-006



Page 2 of 2

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Certificate issued by

SGS Fimko Oy

Takomotie 8

FI-00380 Helsinki, Finland

t. +358 9 696 361 www.sgs.com

Business ID 0634247-4

Member of the SGS Group (SGS SA)



[[b-8]] (P1/2)

CERTIFICATE

P25228500



Applicant	Murata Mfg. Co., Ltd. 10-1, Higashikotari 1-chome, Nagaokakyo-shi Kyoto 617-8555 Japan
Manufacturer	Murata Mfg. Co., Ltd. 10-1, Higashikotari 1-chome, Nagaokakyo-shi Kyoto 617-8555 Japan
Factory	Murata Electronics (Thailand), Ltd. Northern Region Industrial Estate 63 Moo 4 Tambol Ban Klang, Amphur Muang Lamphun 51000 Thailand
Project Number	PRJ0090209
Product	Capacitor for radio interference suppression
Model/Type Ref.	KX
Ratings	440V AC X1
Brandname / Trademark	
Principal Characteristics	Capacitance 10-4700pF, Climatic category 40/125/21/C, Tolerance ±5%, ±10%, ±20%
A sample of the product was tested and found to be in conformity with	Safety EN IEC 60384-14:2023
Validity	<i>This certificate documents conformity with the standards shown, and also applies as license for use of Nemko's name and certification mark. The certificate and license is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation.</i> <i>New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.</i>
Additional Information	See next pages
Additional model(s)	See next pages

Signature

Jiyea Gim

Jiyea Gim
Certification department

Date of Issue

2025-10-21

*Working for a more sustainable future
Please do not print*



www.nemko.com

Nemko Group AS
Philip Pedersens vei 11
1366 Lysaker, Norway
TEL +47 22 96 03 30
info@nemko.com
ENTERPRISE NUMBER
NO974404532



CERTIFICATE

P25228500

[[b-8]] (P2/2)



Product	Capacitor for radio interference suppression
Variant	1
Model/Type Ref.	KX
Ratings	250, 300VAC Y1
Brandname / Trademark (if different from page 1)	
Principal Characteristics	Capacitance 10-4700pF, Climatic category 40/125/21/C, Tolerance $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Additional Information	Ceramic SL (standard size): 10, 15, 22, 33, 47, 68pF $\pm 5\%$, $\pm 10\%$ Ceramic B (standard size): 100, 150, 220, 330, 470pF $\pm 10\%$, $\pm 20\%$ Ceramic B (reduced size): 100, 150, 220, 330, 470, 680, 1000pF $\pm 10\%$, $\pm 20\%$ Ceramic B (2nd reduced size): 100, 150, 220, 330, 470, 680pF $\pm 10\%$, $\pm 20\%$ Ceramic E (standard and reduced size): 1000, 1500, 2200, 3300, 3900, 4700pF $\pm 20\%$

Signature

Jiyea Gim

Jiyea Gim
Certification department

Date of Issue

2025-10-21

Working for a more sustainable future
Please do not print



www.nemko.com

Nemko Group AS
Philip Pedersens vei 11
1366 Lysaker, Norway
TEL +47 22 96 03 30
info@nemko.com
ENTERPRISE NUMBER
NO974404532



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Inspectorate for Heavy Current Installations ESTI
Market Surveillance/Safety Mark

Murata Manufacturing Co. Ltd.
10-1 Higashikotari 1-Chome
Nagaokakyo-shi
Kyoto-fu 617-8555
JAPAN

Client no.
1589

Your reference
Miho Ogoe

Our reference
Christoph Meile

Date
01.10.2025

Authorization

Number: **25.0787**
valid until: **30.09.2028**



Marking:  MJ 502

Based on the documents contained in file **25-BS-0382**, the Federal Inspectorate for Heavy Current Installations grants the firm named above the right to put the equipment listed below on the market marked with the Swiss safety mark in accordance with the NEV.

Equipment: **Fixed capacitors for electromagnetic interference suppression and connection to the supply mains**

Tradename: **MURATA**

Type designation **Nominal values**

KX (standard, reduced and 2nd reduced size)

Rated capacitance:	10; 15; 22; 33; 47; 68; 100; 150; 220; 330; 470; 680; 1000; 1500; 2200; 3300; 3900; 4700pF
Rated voltage:	a) 440Vac b) 250 or 300Vac
Capacity Class and subclass:	a) X1 b) Y1
Type of ceramic:	SL (10 to 68pF) B (100 to 1000pF) E (1000 to 4700pF)

Federal Inspectorate for Heavy Current Installations ESTI
Luppenstrasse 1, CH-8320 Fehraltorf
T +41 58 595 18 18
mub.bs.info@esti.ch
www.esti.admin.ch





Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Authorization Number: **25.0787**

Type designation Nominal values

Tolerance of rated
capacitance: ±5 or ±10% (SL)
 ±10 or ±20% (B)
 ±20% (E)

Climatic category: 40/125/21
Passive flammability
category: C

Protection class:

Protection degree:

Basis: Marks Approval / VDE / 40002831 / 22.08.2025

Remark: Manufacturer site:
Murata Electronics (Thailand) Ltd.
Northern Region Industrial Estate
63 Moo 4, Tambol Ban-Klang Amphur Muang
51000 Lamphun, Thailand

Test standards: EN IEC 60384-14:2023

Federal Inspectorate for Heavy Current Installations ESTI

Severo
Nicoli

Severo Nicoli
Head of Market Surveillance/Safety Mark

Digitally signed by Severo Nicoli
DN: cn=Severo Nicoli, c=CH,
o=Eidgenössisches
Starkstrominspektorat ESTI,
ou=MSZ, email=mub.bg.info@esti.ch
Datum: 2025.10.02 11:59:06 +02'00'





PID:
08020004

CID:
C.1995.237

Certificato di approvazione

Approval certificate



00013

IMQ, ente di certificazione accreditato,
autorizza la ditta

IMQ, accredited certification body, grants to

MURATA MANUFACTURING CO. LTD.
10-1 HIGASHIKOTARI 1-CHOME
NAGAOKAKYO-SHI, KYOTO-FU 617-8555
JP - Japan

all'uso del marchio

the licence to use the mark

IMQ

Il presente certificato è
soggetto alle condizioni
previste nel Regolamento
"MARCHI IMQ - Regolamento
per la certificazione di prodotti"
ed è relativo ai prodotti descritti
nell'Allegato al presente
certificato.



per i seguenti prodotti

for the following products

Condensatori fissi per la soppr.
delle interf. elettromagnetiche
(Serie KX)

EMI suppression capacitors
(Series KX)

This certificate is subjected to the
conditions foreseen by Rules
"IMQ MARKS - RULES for
product certification" and is
relevant to the products listed in
the annex to this certificate.

Emesso il | Issued on **1995-09-26**
Aggiornato il | Updated on **2026-02-26**
Sostituisce | Replaces **2025-10-31**

IMQ S.p.A.



产品认证证书

证书编号: CQC04001011643

发证日期: 2024年08月28日

有效期至: 2029年08月27日

委托人名称 及注册地址	株式会社 村田制作所 日本国京都府长冈京市东神足1丁目10-1番
制造商名称 及注册地址	株式会社 村田制作所 日本国京都府长冈京市东神足1丁目10-1番
生产企业名称 及生产地址	Murata Electronics (Thailand), Ltd. Northern Region Ind. Estate, 63 Moo 4, Tambol Ban-Klang Amphur Muang, Lamphun 51000, 泰国
产品名称和系列、 规格、型号	抑制电磁干扰和电源网络连接用固定电容器 KX (X1:440VAC, Y1:250VAC, 10pF ~4.7nF ; 40/125/21/C (阻燃类别:C))
产品标准和技术要求	GB/T 6346.14-2023
认证模式	产品型式试验+初次工厂检查+获证后监督

上述产品符合 CQC11-471115-2023 认证规则的要求, 特发此证。

本证书为变更证书, 证书首次颁发日期: 2004年11月18日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

可通过扫描下方二维码或登录国家认监委网站 (www.cnca.gov.cn) 查验证书信息



签发:

谢肇煦



中国质量认证中心
CHINA QUALITY CERTIFICATION CENTRE



中国质量认证中心有限公司
中国·北京·南四环西路188号9区 100070

电话: +86 10 83886666
<http://www.cqc.com.cn>



CERTIFICATE OF PRODUCT CERTIFICATION

CERTIFICATE NO.: CQC04001011643

Valid from: Aug.28,2024

Valid until:Aug.27,2029

NAME AND REGISTERED ADDRESS OF THE APPLICANT	Murata Manufacturing Co., Ltd. 10-1 Higashikotari 1-Chome Nagaokakyo-shi Kyoto-fu 617-8555, Japan
NAME AND REGISTERED ADDRESS OF THE MANUFACTURER	Murata Manufacturing Co., Ltd. 10-1 Higashikotari 1-Chome Nagaokakyo-shi Kyoto-fu 617-8555, Japan
NAME AND LOCATION OF THE FACTORY	Murata Electronics (Thailand), Ltd. Northern Region Ind. Estate, 63 Moo 4, Tambol Ban-Klang Amphur Muang, Lamphun 51000, Thailand
PRODUCT NAME, MODEL AND SPECIFICATION	FIXED CAPACITORS FOR ELECTROMAGNETIC INTERFERENCE SUPPRESSION AND CONNECTION TO THE SUPPLY MAINS KX (X1:440VAC, Y1:250VAC, 10pF ~ 4.7nF ; 40/125/21/C (阻燃类别: C))
THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS	GB/T 6346.14-2023
TYPE OF CERTIFICATION SCHEMES	Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC11-471115-2023.

Date of original issued: Nov.18,2004

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn



SIGNATURE:

谢肇煦



中国质量认证中心
CHINA QUALITY CERTIFICATION CENTRE



CHINA QUALITY CERTIFICATION CENTRE CO., LTD.
Section 9, No. 188, Nansihuan Xilu, Beijing 100070 P. R. China

Tel: +86 10 83886666
<http://www.cqc.com.cn>



접수번호 : 20160412-0012

전기용품안전인증서 Electrical Appliances Safety Certificate

안전인증번호: HU03008-4004C
(Certificate No.)

제조업자명: Murata Electronics (Thailand) Ltd.
(Manufacturer)

대표자명: Rachakan Srikunta
(President)

제조공장의 주소: Northern Region Industrial Estate, 63 Moo 4, Tambol Ban-Klang
(Factory Address) Amphur Muang, Lamphon 51000 THAILAND

제품명: Y커패시터
(Product)

기본모델명: KX Y1 250V
(Basic Model)

정격: Y1: 250 V~, 4 700 pF
(Rating)

파생모델명 (Series Model):

- | | |
|-------------|-------------|
| KXB101K-Y1 | KXB102K-Y1 |
| KXB151K-Y1 | KXB221K-Y1 |
| KXB331K-Y1 | KXB471K-Y1 |
| KXB681K-Y1 | KXE102M-Y1 |
| KXE152M-Y1 | KXE182M-Y1 |
| KXE222M-Y1 | KXE332M-Y1 |
| KXE392M-Y1 | KXE472M-Y1 |
| KXSL100J-Y1 | KXSL150J-Y1 |
| KXSL220J-Y1 | KXSL330J-Y1 |
| KXSL470J-Y1 | KXSL680J-Y1 |

적용기준: KC 60381-14(2015-09) KC 60384-1(2015-09)
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.
We issue this Electrical Appliances Safety Certificate for the above electrical appliance in accordance with the Article 6(2) of the Enforcement Rule of the Electrical Appliances Safety Control Act.



2016 년 7 월 6 일
(Year) (Month) (Day)

한국기계전기전자시험연구원
Korea Testing Certification



※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부서류 1. 안전관리부품 및 재질목록 (List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 전기용품 안전인증의 변경 현황 (Revisions Status)

