

## Safety Standard Certified Ceramic Capacitors

(安全規格認定セラミックコンデンサ)

## Type EA

X1 : 440 Vac(r.m.s.) Y1 : 250 Vac(r.m.s.) X1Y1 : 1500Vdc(UL)

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)
ENEC(SEMKO)	EN IEC 60384-14	SE-ENEC-2401372R1	g - 1
UL/cUL	UL60384-14/CSA E60384-14	E37921	g - 2
CQC	IEC60384-14	CQC16001142384	g - 3
KTC	KC60384-14	HU03008-16007	g - 4

\* 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。)

**Murata Mfg. Co.,Ltd.**

株式会社 村田製作所

# LICENCE FOR



ENEC LICENCE REF NO. SE-ENEC-2401372R1

## Capacitor for radio interference suppression

**Type Designation:** EA  
**Licence Holder:** Murata Manufacturing Co., Ltd.  
10-1 Higashikotari 1-chome  
Nagaokakyo-shi  
Kyoto-fu 617-8555  
Japan

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

**Licence holder is authorized to use the mark with the following limitations:**

**Date of expiry:** 09 January, 2030

Additional information in Appendix

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


**Signed:**  **Date:** 07 November, 2025

Quan Li

## APPENDIX: ENEC LICENCE REF NO.SE-ENEC-2401372R1

**Test Report No.** 2404541STO-001, 002, 003, 004,  
 2505719STO-001, 002, 003, 004

**Technical Data:**

*Type designation* EA  
*Rated voltage (V)* Y1: 250, 300, 400VAC, X1: 440VAC  
*Frequency (Hz)* 50/60 Hz  
*Input* 10-2200pF +-10%, +-20%  
*Class* Y1/X1  
*Trademark*   
*Product information* 40/125/21/C, SMD,  
 Ceramic materials: SL, B, E, F

Nominal capacitance (pF)	Ceramic material group	Capacitance tolerance (%)	Rated voltage (VAC)
10	SL	±10%	X1:440V Y1:400V, 300V, 250V
22			
47			
100	B	±10%	
220			
330			
470			
680	E	±20%	
1000			
1500	F		
2200			

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This certificate is not issued under accreditation, by a non-approved body.

**APPENDIX:**  
**ENEC LICENCE REF NO.SE-ENEC-2401372R1**

**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. No. SE-ENEC-2401372 dated 9 January 2025. A new certificate has been issued due to addition of 400VAC for class Y1.

**Certification Body:** Intertek Semko AB, Product Certification

**Place:** Kista - Stockholm

**Signed:**



**Date:** 07 November, 2025

Quan Li

# Fixed Capacitors for Use in Electronic Equipment – Component

**COMPANY****E37921****MURATA MFG CO LTD**

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan



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): [KL](#)

**Class X1/Y1 Capacitors**, Model(s): [EA](#) may be followed by K (±10%) (for 10~47pF), K (±10%) or M (±20%) (for 100~680pF), M (±20%) (for 1000~2200pF).

**Class X1/Y1 Capacitors**, Model(s): [RA](#) may be followed by J (±5%), K (±10%) or M (±20%) for capacitance tolerance.

**Class X1/Y1 Capacitors**, Model(s): [RB](#) may be followed by K (±10%) or M (±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): [TF](#) may be followed by K (±10%).

**Class X1/Y2 Capacitors**, Model(s): [SA](#) may be followed by J (±5%), K (±10%) or M (±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 (±5%) (for 10~82pF), K (±10%) (for 100~4700pF).

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

**Class X1/Y2 Capacitors, Surface Mount Capacitors, Model(s):** MF 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 2025-12-23

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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g - 2 (P2/5)

# Fixed Capacitors for Use in Electronic Equipment Certified for Canada - Component

**COMPANY****E37921****MURATA MFG CO LTD**

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan



Marking: Company name or trademark , model designation, and the Recognized Component Mark for Canada

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 (±10%) (for 10~47pF), K (±10%) or M (±20%) (for 100~680pF), M (±20%) (for 1000~2200pF).

**Class X1/Y1 Capacitors**, Model(s): [RA](#) may be followed by J (±5%), K (±10%) or M (±20%) for capacitance tolerance.

**Class X1/Y1 Capacitors**, Model(s): [RB](#) may be followed by K (±10%) or M (±20%) for capacitance tolerance.

**Class X1/Y2 Capacitors**, Model(s): [TF](#) may be followed by K (±10%).

**Class X1/Y2 Capacitors**, Model(s): [SA](#) may be followed by J (±5%), K (±10%) or M (±20%) for capacitance tolerance.

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

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

**Class X1/Y2 Capacitors, Surface Mount Capacitors**, Model(s): [MF](#) may be followed by K (±10%) (for 100~4700pF), M(±20%) (for 5600~10000pF).

[Last Updated](#) on 2025-12-23

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# Model EA

File Number: E37921

**COMPANY**

**MURATA MFG CO LTD**  
 COMPONENT BUSINESS UNIT  
 1-10-1 HIGASIKOTARI  
 NAGAOKAKYO-SHI, Kyoto 617-8555 Japan

**MODEL INFO**

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

**GENERAL**

US Standard	Canadian Standard	Capacitor Class	Voltage (v)	AC or DC	Capacitance	Tolerance (%)	Resistance for RC Devices (k ohms)	Lower Temperature (°C)	Upper Temperature (°C)	Additional Robustness Grades
ANSI/UL 60384-14:2025 (3rd ed.)	CAN/CSA- E60384-14 (2014)	X1/Y1	1500	DC	10~2200pF	K( $\pm 10\%$ ) or M( $\pm 20\%$ )		-40	125	
ANSI/UL 60384-14:2025 (3rd ed.)	CAN/CSA- E60384-14 (2014)	Y1	250 / 300/400	AC	10~2200pF	K( $\pm 10\%$ ) or M( $\pm 20\%$ )		-40	125	
ANSI/UL 60384-14:2025 (3rd ed.)	CAN/CSA- E60384-14 (2014)	X1	440	AC	10~2200pF	K( $\pm 10\%$ ) or M( $\pm 20\%$ )		-40	125	

Report Date: 2016-03-22

Revision Date: 2025-12-19

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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# 产品认证证书

证书编号: CQC16001142384

发证日期: 2025 年 12 月 10 日

有效期至: 2030 年 12 月 09 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. 63 Moo4, 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 EA : X1 440Vac, Y1 400Vac/300Vac/ 250Vac, 10pF ~ 2200pF, 40/125/21/C
产品标准和技术要求	IEC60384-14:2013+AMD1:2016
认证模式	产品检测+获证后监督

上述产品符合 CQC11-471112-2015 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: 2016 年 04 月 12 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

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<http://www.cqc.com.cn>



# CERTIFICATE OF PRODUCT CERTIFICATION

CERTIFICATE NO.: CQC16001142384

Valid from: Dec.10,2025

Valid until:Dec.09,2030

<b>NAME AND REGISTERED ADDRESS OF THE APPLICANT</b>	Murata Manufacturing Co., Ltd. 10-1 Higashikotari 1-Chome Nagaokakyo-shi Kyoto-fu 617-8555, Japan
<b>NAME AND REGISTERED ADDRESS OF THE MANUFACTURER</b>	Murata Manufacturing Co., Ltd. 10-1 Higashikotari 1-Chome Nagaokakyo-shi Kyoto-fu 617-8555, Japan
<b>NAME AND LOCATION OF THE FACTORY</b>	Murata Electronics (Thailand), Ltd. 63 Moo4, Tambol Ban-Klang, Amphur Muang, Lamphun 51000 Thailand
<b>PRODUCT NAME, MODEL AND SPECIFICATION</b>	FIXED CAPACITORS FOR ELECTROMAGNETIC INTERFERENCE SUPPRESSION AND CONNECTION TO THE SUPPLY MAINS EA : X1 440Vac, Y1 400Vac/300Vac/ 250Vac, 10pF ~ 2200pF, 40/125/21/C
<b>THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS</b>	IEC60384-14:2013+AMD1:2016
<b>TYPE OF CERTIFICATION SCHEMES</b>	Product Testing + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC11-471112-2015.

Date of original issued: Apr.12,2016

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](http://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>



# 안전인증서 Safety Certificate

안전인증번호 : HU03008-16007B  
(Application No.)

제조업자/수입업자명 : Murata Electronics (Thailand) Ltd.  
(Manufacturer/importer)

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

제품명 : X-Y커패시터  
(Product)

기본모델명 : EA152M  
(Basic Model)

파생모델명 (Series Model) :  
EA100K,EA120K,EA150K, [이면기재]

정격/안전기준상의 모델구분 : X1: 440 V~, Y1: 250 V~, 1 500 pF  
(Rating)

시험기준 : KC 60384-1(2015-09), KC 60384-14(2015-09)  
(Standard)

본 인증서는 제조국명 : 태국  
제조업자명 : Murata Electronics (Thailand) Ltd.

제조공장의 주소 : Northern Region Industrial Estate, 63 Moo 4, Tambol Ban-Klang Amphur  
Muang, Lamphon 51000 THAILAND  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.  
We issue this Safety Certificate for the above appliances in accordance with Article 9(2), 9(4), 10(2)  
or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 01 월 25 일  
(Year) (Month) (Day)

한국기계전기전자시험연구원  
Korea Testing Certification Inst



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

첨부서류

- 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
- 기본모델·파생모델의 내용(Description of the basic and series model)
- 안전인증의 변경 현황(Revisions Status)

## 안전인증을 받은 자의 유의 사항 Notification for Recipients

1. 본 증명서는 기재된 제조공장에서 생산된 제품으로서 적용된 안전기준에 적합한 경우에 한하여 유효합니다.  
(This certificate is valid only when the product meets the safety standards and is produced from the manufacturing factory that states on this certificate.)
2. 안전인증 마크는 본래의 의미와 다르게 사용자가 오해를 일으킬 수 있는 방법으로 광고, 카탈로그 등에 사용하면 인증정지 또는 취소의 사유가 됩니다.  
(Cessation or cancellation of the certification may occur if the actual meaning of the Safety Certification Mark is misled to the public by false advertisement on a catalog of the product.)
3. 다음과 같은 사유가 발생할 경우에는 안전인증기관에 안전인증 변경 신청을 하여 안전인증서를 재교부 받아야 합니다.  
(In case of the following events, the Safety Certificate shall be reapplied and reissued for revision)
  - 1) 제조자, 대표자, 주소 등 인증서 기재내용의 변경  
(Revisions in contents of the certificate such as manufacturer representative, address and etc.)
  - 2) 파생모델의 추가, 변경 또는 삭제 (Additions, changes, or removals of series model)
  - 3) 안전관리 부품의 변경 또는 추가  
(Additions or changes in components which are listed on the certificate)
4. 안전인증을 받은 자는 다음 사항을 이행하여야 합니다.  
(Recipients of the Safety Certificate shall comply with the followings.)
  - 1) 안전인증 표시 등 인증요건의 유지관리  
(Maintaining and preserving the Mark and other certification requirements)
    - \* 안전인증을 받기 이전 또는 정지, 취소된 이후 생산된 제품에 안전인증 표시를 하면 법에 의거 처벌을 받게 됩니다.  
(It will be punished by the law if the certification mark is used before the issue (or after suspension or cancellation) of the certification.)
  - 2) 자체 검사의 실시 및 그 기록관리 (Self-testing and record keeping)
    - \* 안전인증을 받은 자는 제품검사를 철저히 실시하여 제품의 품질이 안전기준에 미달되지 않도록 유의.  
(Recipients of the Safety Certificate shall conduct products inspection strictly for products to comply with the safety standards)
5. 안전인증을 받을자는 전기용품 및 생활용품 안전관리법 제 7조에 따라 2년에 1회 정기검사를 실시하여야 한다.  
(Recipients of the Safety Certificate shall require to inspect once in two years according to the Article 7 section of the the Electrical Appliances and Consumer Products Safety Control Act.)
6. 인증서(증명서)에는 진위여부 확인을 위해 다음과 같은 사항이 적용되어 있습니다.
  - 1) 문서관리번호 (문서관리번호 노출시 CS홈페이지를 통해 기술문서 내용이 조회 가능함으로 사본 등 제출시 노출되지 않도록 주의하시기 바랍니다.)
  - 2) 시점확인필
  - 3) 2D바코드

안전인증시의 조건: 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.  
Conditions of Certification : In the production of this product, conduct a self-test and do not miss and change the registered components.

**파생모델명**

EA180K,EA220K,EA270K,EA330K,EA390K,EA470K,EA101K,EA151K,EA221K,EA331K,E  
A471K,EA681K,EA102M,EA222M

