

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

Type GF

Certification Body (認証機関)	Class (クラス)	Rated Voltage (定格電圧)	Object Chip size (対象チップサイズ)	Standard No. (規格番号)	Certificate No.* (認定番号)	Expiration date (有効期限)	Attached Page No. (添付ページ番号)
UL/cUL	-	250 Vac(r.m.s.)	4.5×2.0mm (1808)	UL60950-1/CSA C22.2 (note 1)	E316111	No expiration date (有効期限無し)	6 - 1
	X1Y2	250 Vac(r.m.s.) 1000Vdc	4.5×2.0mm (1808) 5.7×2.8mm (2211) 5.7×5.0mm (2220)	UL60384-14/CSA E60384-14	E37921	No expiration date (有効期限無し)	6 - 2
SEMKO	X1Y2	250 Vac(r.m.s.)	4.5×2.0mm (1808) 5.7×2.8mm (2211) 5.7×5.0mm (2220)	EN IEC 60384-14	SE-S-2500085	2030-01-29	6 - 3
VDE	X1Y2	250 Vac(r.m.s.)	5.7×2.8mm (2211) 5.7×5.0mm (2220)	EN60384-14 IEC60384-14	40024096	No expiration date (有効期限無し)	6 - 4

note 1) : Certified except for insulating distance and applicable only for the instruments certified by UL60950-1.

note 1): 絶縁距離を除いた認定取得品のため、UL60950-1認定機器でのみ使用可能です。

* 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

Note: We are enhancing our systems and you may notice duplicate entries/missing/outdated data. During this interim period, please contact our Customer Service at <https://www.ul.com/about/locations>.

Information Technology Equipment Including Electrical Business Equipment - Component

COMPANY

MURATA MFG CO LTD

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan

E316111

Marking: Company name and model designation.

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

Fixed monolithic ceramic capacitors, Model(s): "GD", "GF" + "GA34**GF*****"**

Last Updated on 2024-04-27

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Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component

COMPANY


MURATA MFG CO LTD

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan

E316111

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

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

Fixed monolithic ceramic capacitors, Model(s): "GD", "GF" + "GA34**GF*****"**

Last Updated on 2024-04-27

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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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Fixed Capacitors for Use in Electronic Equipment Certified for Canada - 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 , 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 ($\pm 10\%$) (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): 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/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, 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).

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Model GF series for type GA342

File Number: E37921

COMPANY

MURATA MFG CO LTD

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan

MODEL INFO

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

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/Y2	250	AC	10 ~ 1000 pF	+/-5% or +/-10%		-55	125	
--	--	X1/Y2	1000	DC	10 ~ 1000 pF	+/-5% or +/-10%		-55	125	

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Model GF series for type GA352, GA355

File Number: E37921

COMPANY

MURATA MFG CO LTD

COMPONENT BUSINESS UNIT

1-10-1 HIGASIKOTARI

NAGAOKAKYO-SHI, Kyoto 617-8555 Japan

MODEL INFO

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

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/Y2	250	AC	100 ~ 4700 pF	+/-5, or +/-10		-55	125	
--	--	X1/Y2	1000	DC	100 ~ 4700 pF	+/-5, or +/-10		-55	125	

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CERTIFICATE

FOR EUROPEAN PRODUCT SAFETY

Reference No. SE-S-2500085

Capacitor for radio interference suppression

Type designation: GF

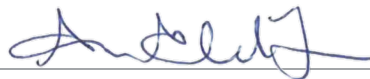
Certificate holder: Murata Mfg. Co. Ltd.
10-1 Higashikotari 1-chome
Nagaokakyo-shi
617-8555 Kyoto-fu, Japan

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

Date of expiry: 29 January, 2030

Additional information in Appendix

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

Signed:

Date: 29 January, 2025


Anneli Averland Johansson

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APPENDIX:

Reference No. SE-S-2500085

Technical Data:

Type designation	GF
Rated voltage (V)	250VAC
Input	10-4700pF +-5%, +-10%
Class	X1/Y2
Trademark	
Test Report	2404542STO-001, 2404542STO-002, 2404542STO-003
Product information	55/125/21/C. SMD. Ceramic SL, X7R

GA34* 4520 size

Nominal capacitance (pF)	Rated voltage	Ceramic material group	Capacitance tolerance (%)
10	250Vac	SL	±5%
12			
15			
18			
22			
27			
33			
39			
47			
56			
68			
82			
100	250Vac	X7R	±10%
150			
220			
330			
470			
680			
1000			

Intertek

APPENDIX:

Reference No. SE-S-2500085

GA35* 5728 size

Nominal capacitance (pF)	Rated voltage	Ceramic material group	Capacitance tolerance (%)
100	250Vac	X7R	±10%
150			
220			
330			
470			
680			
1000			
1500			

GA35* 5750 size

Nominal capacitance (pF)	Rated voltage	Ceramic material group	Capacitance tolerance (%)
1800	250Vac	X7R	±10%
2200			
3300			
4700			

Replaces previous certificates Ref. SE-S-2100997 and SE-S-2100998 dated 14 July 2021 due to updated standard and added capacitance values.

Manufacturing Sites: Izumo Murata Manufacturing Co., Ltd.
2308 Kaminaoe Hikawa-cho
Izumo-shi Shimane Pref. 699-0696
Japan



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

Signed:  **Date:** 29 January, 2025

Anneli Averland Johansson

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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

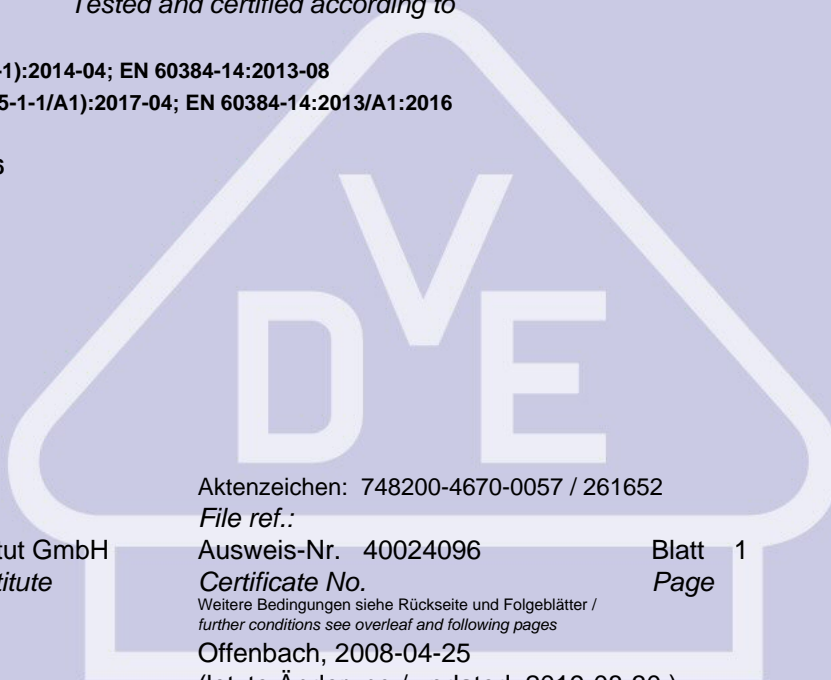
**Festkondensator zur Unterdrückung elektromagnetischer
Störungen, geeignet für Netzbetrieb**
***Fixed capacitor for electromagnetic interference
suppression and connection to the supply mains***

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 60384-14 (VDE 0565-1-1):2014-04; EN 60384-14:2013-08
DIN EN 60384-14/A1 (VDE 0565-1-1/A1):2017-04; EN 60384-14:2013/A1:2016
IEC 60384-14:2013
IEC 60384-14:2013/AMD1:2016



Aktenzeichen: 748200-4670-0057 / 261652

File ref.:

Ausweis-Nr. 40024096

Blatt 1

Certificate No.

Page

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

Offenbach, 2008-04-25

(letzte Änderung / updated 2019-08-30)

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VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

R. Nickel

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VDE certificates are valid only when published on:

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

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. / Page
40024096 / 2

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.*

748200-4670-0057 / 261652 / TL3 / KIL

letzte Änderung / *updated*

2019-08-30

Datum / *Date*

2008-04-25

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40024096.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40024096.

Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb

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

Typ(en) / *Type(s)*

GF

Weitere Einzelheit(en)

Further details

Anlage Nr. 200, 600 und 700 vom 2019-08-30

Appendix no. 200, 600 and 700 dated 2019-08-30

VDE Prüf- und Zertifizierungsinstitut GmbH

VDE Testing and Certification Institute

Fachgebiet TL3

Section TL3

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40024096

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JAPAN

Aktenzeichen / *File ref.*

748200-4670-0057 / 261652 / TL3 / KIL

letzte Änderung / *updated*

2019-08-30

Datum / *Date*

2008-04-25

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This supplement is part of the Certificate No. 40024096.

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*

30009300

Izumo Murata Mfg. Co., Ltd.

2308 Kaminaoe Hikawa-cho

IZUMO CITY, SHIMANE-KEN 699-0696

JAPAN

VDE Prüf- und Zertifizierungsinstitut GmbH

VDE Testing and Certification Institute

Fachgebiet TL3

Section TL3

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Infoblatt /
Certificate No. / Info sheet
40024096

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Aktenzeichen / *File ref.*

748200-4670-0057 / 261652 / TL3 / KIL

letzte Änderung / *updated*

2019-08-30

Datum / *Date*

2008-04-25

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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.

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The approval is solely signed on the first page.

VDE Prüf- und Zertifizierungsinstitut

Zeichengenehmigung

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

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40024096 .

*This supplement is only valid in conjunction with page 1 of the Certificate No. 40024096*Rubrik / *Rubric*

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Ausweis-Nr. /
Certificate No.
40024096Anlage /
Appendix
200Aktenzeichen / *File ref.*748200-4670-
0057/261652/TL3/KILletzte Änderung / *updated*

2019-08-30

Datum / *Date*

2008-04-25

Festkondensator zur Unterdrückung elektromagnetischer Störungen, geeignet für Netzbetrieb

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

Typ(en) <i>Type(s)</i>	GF		
Bemessungskapazität <i>Rated capacitance</i>	100pF; 150pF; 220pF; 330pF; 470pF; 560pF; 680pF; 1000pF; 1500pF; 1800pF; 2200pF; 3300pF; 4700pF		
Bemessungsspannung <i>Rated voltage</i>	AC 250 V		
Kondensatorklasse und -unterklasse <i>Capacitor class and subclass</i>	X1 / Y2		
Grenzabweichung der Bemessungskapazität <i>Tolerance of rated capacitance</i>	±10% (K)		
Klimakategorie <i>Climatic category</i>	55/125/21		
Kategorie der passiven Entflammbarkeit <i>Passive flammability category</i>	C		
Keramikart <i>Type of ceramic</i>	X7R		
Genehmigung für Gleichspannungsanwendungen nach Anhang H <i>Approval for d.c. applications according to Annex H</i>	<input type="checkbox"/>	ja	Bemessungsgleichspannung DC ____ V
	<input checked="" type="checkbox"/>	nein	<i>d.c. rated voltage</i> <i>no</i>
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>

