



MURATA MANUFACTURING CO., LTD.

Attention: DIGI-KEY

No. : HEMCG0-1398

Date : March 21, 2013

MLCC: Monolithic Ceramic Capacitor

Notification - Discontinuance of certain products using Precious Metal

Dear Valued Customer,

Thank you very much for your patronage on our ceramic capacitor.

We would much appreciate to submit this letter to inform you about the Discontinuance of certain MLCC products which use Precious Metal for the Inner/Outer Electrode.

<p>1. Object Part MLCC (Chip Monolithic Ceramic Capacitor) : GCx03 - GCx55 series (0.6×0.3mm - 5.7×5.0mm)</p>
<p>2. Applied Part Numbers and Murata Product Types (1) Customer Part Number: Please find enclosed Appendix(1). (2) Murata Product Types: GCxxxx xx xx xxx x <u>Dxx</u> x GCxxxx xx xx xxx x <u>Zxx</u> x</p>
<p>3. Reason Precious Metal's market price continues increasing and stays high. Particularly, Palladium price has been impacting Murata's MLCC products. In addition, Chinese government's export control from 2010 hangs over our head by Rare Earth's procurement and purchase cost. Even Murata takes any means to manage the situation, to avoid negative impact by precious metal and Rare Earth, however Precious Metal price increase and Rare Earth's crisis bring great influence onto our production. Murata has been expanding the products that use Base Metal for Inner/Outer electrode material as standard products. We would like you to accept this change because of our standardization point of view. The change to Base Metal enables us to manage the risk from the influence of Precious Metal market in supply and cost.</p>
<p>4. Discontinuance Schedule Date of Last Time Buy : December 31, 2013 Date of Discontinue Production : March 31, 2014 Please return this form with your signature by June 30, 2013. We would like to take action after your acceptance. Please feel free to contact us, if you have any question or request on our proposal.</p>

5. Proposal of alternate product

We would like to propose the alternate product.
Please find enclosed Appendix(1).
Please confirm.

(1)Structure

· Fig (Nickel Barrired termination)

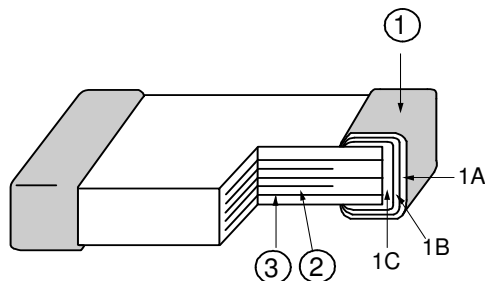


Table A

No.	NAME	Material	
		Current (Fig)	New (Fig)
①	Termination		
1A	Plated layer	Tin	Tin
1B	Plated layer	Nickel	Nickel
1C	Electrode	Silver/Palladium or Silver	Copper
②	Dielectric layer	TiO2	CaZrO3
③	Inner electrode	Palladium or Silver/Palladium	Nickel

Table B

No.	NAME	Material	
		Current (Fig)	New (Fig)
①	Termination		
1A	Plated layer	Tin	Tin
1B	Plated layer	Nickel	Nickel
1C	Electrode	Silver/Palladium or Silver	Copper
②	Dielectric layer	BaTiO3	BaTiO3
③	Inner electrode	Palladium or Silver/Palladium	Nickel

(2)Please see attached Typical Reliability Test Data for your reference.

6. Others

This change will be applied to all Murata production factory of Chip MLCC, as follows.
Fukui Murata Mfg.Co.,Ltd. , Izumo Murata Mfg.Co.,Ltd. , Okayama Murata Mfg.Co.,Ltd.
Murata Electronics Singapore(Pte.)Ltd. , Wuxi Murata Electronics Co.,Ltd.

Yours very truly,

The notification for the acceptance

Date :
Company :
Signature :
Comment :

K. Makida

Business Development Support Sec.
Product Promotion Dept.
Fukui Murata MFG. Co., Ltd.

* Please return this form with your signature to our sales representative by **June 30, 2013**.

Appendix (1)

Customer P/N	Murata P/N		Structure
	Current	New	
490-4755-2-ND	GCM1555C1H100JZ13D	GCM1555C1H100JA16D	Table A
490-4756-2-ND	GCM1555C1H101JZ13D	GCM1555C1H101JA16D	Table A
490-4757-2-ND	GCM1555C1H1R0CZ13D	GCM1555C1H1R0CA16D	Table A
490-4916-2-ND	GCM1555C1H1R5CZ13D	GCM1555C1H1R5CA16D	Table A
490-4917-2-ND	GCM1555C1H2R2CZ13D	GCM1555C1H2R2CA16D	Table A
490-4918-2-ND	GCM1555C1H3R3CZ13D	GCM1555C1H3R3CA16D	Table A
490-4919-2-ND	GCM1555C1H4R7CZ13D	GCM1555C1H4R7CA16D	Table A
490-4920-2-ND	GCM1555C1H6R8DZ13D	GCM1555C1H6R8DA16D	Table A
490-4921-2-ND	GCM1555C1H150JZ13D	GCM1555C1H150JA16D	Table A
490-4922-2-ND	GCM1555C1H220JZ13D	GCM1555C1H220JA16D	Table A
490-4923-2-ND	GCM1555C1H330JZ13D	GCM1555C1H330JA16D	Table A
490-4924-2-ND	GCM1555C1H470JZ13D	GCM1555C1H470JA16D	Table A
490-4925-2-ND	GCM1555C1H680JZ13D	GCM1555C1H680JA16D	Table A
GCM1555C1H180JZ13D	GCM1555C1H180JZ13D	GCM1555C1H180JA16D	Table A
490-4769-2-ND	GCM1885C1H1R0CZ13D	GCM1885C1H1R0CA16D	Table A
490-4773-2-ND	GCM1885C2A1R0CZ13D	GCM1885C2A1R0CA16D	Table A
490-4936-2-ND	GCM1885C2A1R5CZ13D	GCM1885C2A1R5CA16D	Table A
490-4937-2-ND	GCM1885C2A2R2CZ13D	GCM1885C2A2R2CA16D	Table A
490-4938-2-ND	GCM1885C2A3R3CZ13D	GCM1885C2A3R3CA16D	Table A
490-4939-2-ND	GCM1885C2A4R7CZ13D	GCM1885C2A4R7CA16D	Table A
490-4940-2-ND	GCM1885C2A6R8DZ13D	GCM1885C2A6R8DA16D	Table A
490-4952-2-ND	GCM1885C1H1R5CZ13D	GCM1885C1H1R5CA16D	Table A
490-4953-2-ND	GCM1885C1H2R2CZ13D	GCM1885C1H2R2CA16D	Table A
490-4954-2-ND	GCM1885C1H3R3CZ13D	GCM1885C1H3R3CA16D	Table A
490-4955-2-ND	GCM1885C1H4R7CZ13D	GCM1885C1H4R7CA16D	Table A
490-4956-2-ND	GCM1885C1H6R8DZ13D	GCM1885C1H6R8DA16D	Table A
GCM1885C1H8R2DZ13D	GCM1885C1H8R2DZ13D	GCM1885C1H8R2DA16D	Table A