



MURATA MANUFACTURING CO., LTD.

Attention: ANGLIA LTD.
 No. : HEMCG0-1366
 Date : 04 April, 2011

MLCC: Monolithic Ceramic Capacitor

Notification - Discontinuance of Product that contains Pb under New RoHS regulation

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 Product that contains Pb under RoHS directed exemption No.7 (c.) - III

1. Object Part

MLCC (Chip Monolithic Ceramic Capacitor) : GRM/GCM/GRG/GCG/GCS/GJ4 series

2. Applied Part Numbers and Murata Product Types

(1)Customer Part Number: Please find enclosed Appendix(1).

(2)Murata Product Types:

[GR****](#) [ΔC**](#) [****](#) [*D**](#) [*](#) [GJ4****](#) [R8**](#) [****](#) [*D**](#) [*](#)
[GC****](#) [ΔC**](#) [****](#) [*D**](#) [*](#) [GJ4****](#) [B8**](#) [****](#) [*D**](#) [*](#)

Type	TC	Rated Volt.	Capacitance (pF)
GRM155 GCM155 GRG155	ΔC	25/50V	56 to 160
GRM188	ΔC	50V 100V	230 to 560 120 to 160
GCM188	ΔC	50V 100V	230 to 470 120 to 160
GCG188 GCS188	ΔC	50V 100V	230 to 390 120 to 160
GRM21	ΔC	50V 100V	560 to 2400 390 to 1000
GCM21	ΔC	50V 100V	560 to 1800 390 to 1000
GCG21	ΔC	50V 100V	470 to 1800 390 to 750
GCS21	ΔC	50V 100V	760 to 1800 500 to 750
GRM31	ΔC	50V	2200 to 6200

GRM31	ΔC	100V	1200 to 2200
GCM31	ΔC	50V	2200 to 4400
GCG31		100V	1200 to 2200
GCS31	ΔC	50V	3800 to 7900
GRM32		100V	2700 to 4400
GCM32		50V	5100 to 13000
GCG32		100V	4300 to 12000
GCS32	ΔC	50V	11000 to 44000
GRM43		100V	11000 to 30000
GCM43		50V	3900 to 10000
GCG43	ΔC	16V	1000 to 3300
GRM55		50V	10000 to 39000
GCM55	ΔC	16V	820 to 15000
GCG55		50V	39000 to 100000
GJ418	R8	16V	12000 to 39000
	B8	50V	47000 to 100000
GJ421	R8	16V	10000 to 39000
	B8	50V	820 to 15000
GJ431	R8	16V	39000 to 100000
	B8	50V	12000 to 39000
GJ432	B8	50V	47000 to 100000

3. Reason

The Lead(Pb) is used in ceramic material for specific MLCC products.
 Current EU RoHS regulation allows to use dielectric ceramic material that contains PB so far.
 However, EU RoHS regulation was revised as shown below.
 So, we would like to take action in order to follow new requirement.

Scope and dates of applicability :

Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013

4. Discontinuance Schedule

Dead line of one shot last order : December 31, 2011
Date of discontinue production : February 29,2012
Please return this form with your signature by September 30, 2011.

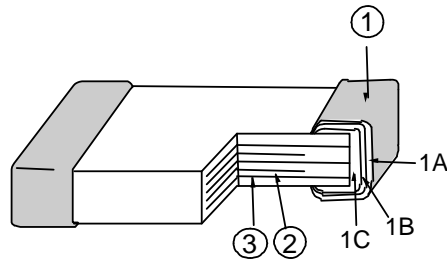
We would like to take action after your acceptance.
 Please feel free to contact us, if you have any question or request on our proposal.

5. Proposal of alternate product

We would like to propose the alternate product.
 Please find enclosed Appendix(1).
 The change point is described clearly. So, please confirm.

(1)Structure

· Fig.1 (Nickel Barrired termination)



· Fig.2 (Silver palladium termination)

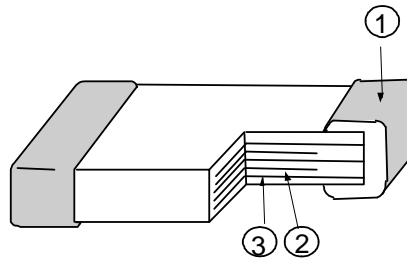


Table A

No.	NAME	Material	
		Current (Fig.1)	New (Fig.1)
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.1)	New (Fig.1)
①	Termination		
	1A Plated layer	Tin	Tin
	1B Plated layer	Nickel	Nickel
	1C Electrode	Silver/Palladium or Silver	Copper
②	Dielectric layer	SrTiO3	CaZrO3
③	Inner electrode	Palladium or Silver/Palladium	Nickel

Table C

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

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

HEMCG0-1366

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. , Beijing Murata Eletronics Co.,Ltd. ,
 Wuxi Murata Electronics Co.,Ltd.

Yours very truly,

The notification for the acceptance

Date :
 Company :
 Signature :
 Comment :



Business Development Support Sec. I

Comment :

Planning & Market Promotion Department
Monolithic Ceramic Capacitor Group
Fukui Murata Mfg. Co., Ltd.

*** Please return this form with your signature to our sales representative by September 30, 2011**