

Document Receipt Acknowledgement

Date:
Section:
Name:

muRata

INNOVATOR IN ELECTRONICS

Document Number: HEMCG2-2683

Date: May. 20, 2019

Attention:

FUTURE/MICRON/SOUTHAVEN/MS

Product Withdrawal Notice

Chip Monolithic Ceramic Capacitor: GR* series/ZR* series

Dear. Valued Customer

Thank you very much for your great and continued support for business with Murata. We would like to notify you regarding one of our product's withdrawal and discontinuation. Please review the details of this notification and provide your response by the due date(s) below. Also, please place Last Time Buy orders before the end of March 2021 as needed. Your understanding and support are highly appreciated.

1. Product Type, Customer/Murata/Alternative Part Numbers:

Product Type: 1) Chip Monolithic Ceramic Capacitor: GR* series/ZR* series

Case size : 0402, 0603, 0805, 1206

Temperature Characteristics: Code (Public Standard Code)

B1/B3(B)···JIS standard , R1(R)/R6(X5R)/R7(X7R)/C7(X7S)/C8(X6S)···EIA standard

Capacitance $\geq 1\mu\text{F}$, Voltage $\leq 100\text{V}$

2) Chip Monolithic Ceramic Capacitor: GR* series

Case size :0603, 0805, 1206, 1210, 1812, 2220

Temperature Characteristics: Code (Public Standard Code)

B1/B3(B)···JIS standard , R1(R)/R6(X5R)/R7(X7R)/C7(X7S)/C8(X6S)···EIA standard

Capacitance $\leq 0.1\mu\text{F}$, Voltage $< 100\text{V}$

Please refer to the attached documents for detailed Part Number information.

2. Reasons/Background:

There is a serious shortage supply of Multilayer ceramic capacitors (hereinafter referred to as MLCC) mainly for small and medium voltage products because of the expansion of mobile devices that use small and thin layer products, the increase of electrical installation ratio for automotive applications, and the expansion of base stations, servers, etc.

In order to respond to the needs of the market, we decided to reduce the production capacity of a part of areas and shift production capacity to the above mentioned areas. Meanwhile we asked for downsizing, promotion of multiple company certification, and transfer to another supplier.

However, since the GAP of supply and demand in the MLCC industry continues to expand, this time, for these items, we decided to change production policy from reduced items to discontinued items.

Therefore, as for the target items, we will gradually reduce the production capacity and restrict the supply quantity to discontinue the production. Therefore regarding the items in the attached document, we will ask to promote "Downsizing, multiple company certification, and transfer to another supplier" as soon as possible.

3. Product Withdrawal Schedule:

Last Time Order Due (*): **Mar. 31, 2021**

Last Production Date: **Feb. 28, 2022**

Last Shipment Date: **Mar. 31, 2022**

(*) Last Time Buy order is subjected to Minimum Order Quantity and Package Quantity. Order Cancellation and Product Return will be accepted only in the case of quality issue.

4. Feedback Due:

Please respond by November 20, 2019 regarding your understanding and acceptance of this Withdrawal Notice or whether you need further discussion and/or adjustment with Murata.

5. Contact Window:

Should you have any questions or concerns, please contact Murata Sales, Representative, or Distributor in your area.

Truly Yours. Thank you.

Murata Manufacturing Co., Ltd.

Sales department

General manager Ryuji Kita

Confirmation Letter

FUTURE/MICRON/SOUTHAVEN/MS

Murata Manufacturing Co., Ltd.

Product Withdrawal Confirmation

Product Withdrawal detailed below is

Subject to Further Discussion.

Accepted.

Product Type:

- 1) Chip Monolithic Ceramic Capacitor: GR* series / ZR* series
Case size : 0402, 0603, 0805, 1206
Temperature Characteristics: Code (Public Standard Code)
B1/B3(B)···JIS standard
R1(R)/R6(X5R)/R7(X7R)/C7(X7S)/C8(X6S)···EIA standard
Capacitance $\geq 1\mu\text{F}$, Voltage $\leq 100\text{V}$
- 2) Chip Monolithic Ceramic Capacitor: GR* series
Case size : 0603, 0805, 1206, 1210, 1812, 2220
Temperature Characteristics: Code (Public Standard Code)
B1/B3(B)···JIS standard
R1(R)/R6(X5R)/R7(X7R)/C7(X7S)/C8(X6S)···EIA standard
Capacitance $\leq 0.1\mu\text{F}$, Voltage $< 100\text{V}$

Last Time Order Due: Mar. 31, 2021

Comments, Questions, Requests, etc.

Signature

Date: (MM, DD, YYYY)

Title:

Name:

Part Number List

Please find the list below for the target part numbers which are registered as yours in Murata. (Customer Part Number)

Regardless of the list below, all part numbers shall be the target as far as they are categorized into the Product Type indicated in the Document.

Alternative Part Number: Size, Electrical Characteristics could be identical to or different from the current product.

Murata Part Number	Alternative Part Number
GRM155R60J105KE19J	GRM033R60J105ME11J
GRM188R60J475KE19J	GRM155R60J475ME47J
GRM219R61E106KA12J	GRM188R61E106MA73J
GRM188R71H104KA93D	GRM033R6YA104KE14D
GRM21BR61A106KE19L	GRM188R60J106ME47D
GRM155R61A105ME15D	GRM033R61A105ME15D
GRM188R61E105KA12D	GRM155R61E105KE11D
GRM188R61E105MA12D	GRM155R61E105KE11D
GRM188R61A475KE15D	GRM155R61A475MEAAD
GRM21BR61E475KA12L	GRM188R61E475KE11D
GRM21BR71H105KA12L	GRM155R6YA105KE11D
GRM219R61E106KA12D	GRM188R61E106MA73D
GRM155R60J105ME19D	GRM033R60J105ME11D
GRM188C80G475KE19D	GRM155C80J475MEAAD
GRM188R60J475ME19D	GRM155R60J475ME47D
GRM188R71H103KA01D	GRM033R71E103KE14D
GRM188R71H223MA01D	GRM033R61C223ME84D
GRM188R71C105KE15D	GRM155C81C105KE11D
GRM188R71C393KA01D	GRM033R61C473KE84D
GRM188R71E104KA01D	GRM033C81E104KE14D
GRM188R71H153KA01D	GRM033R61C153KE84D
GRM319R71H103KA01D	GRM033R71E103KE14D
GRM319R71H473KA01D	GRM033R61C473KE84D
GRM31CR60J106MA01L	GRM188R60J106ME47D