| Document Receipt Acknowledgement | | | | | |
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| Date: | | | | | |
| Section: | | | | | |
| Name: | | | | | |
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muRata
INNOVATOR IN ELECTRONICS

Document No.: DM-TA16-006-D0584

Date; Oct., 14, 2016

Attention:

PK COMPONENTS ELEKT.BAUELEM. VERTR. GMBH

Product Withdrawal Notice

Trimmer Capacitor TZB4S100 Series

Dear, Valued Customer

Thank you very much for your great and continued support for business with Murata. This is the official notification that some of our products will be discontinued as detailed below. Please review this, and indicate your feedback for this Notice in writing by Feedback Due. Also, please place Last Time Buy Order by the Last Time Order Due Date as needed. Your understanding and support are highly appreciated.

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

Product Type: Trimmer Capacitor TZB4S100 Series

Please refer to the attached documents for detailed Part Numbers' information.

2. Reasons/Background:

We decided TZB4S100 Series to be integrated to TZB4Z100 Series, which is the temperature characteristic improvement product, in order to achieve higher quality stabilization.

All the electrical characteristics, appearance, dimensions remain the same in TZB4S100 and TZB4Z100, except the temperature characteristics.

| | TZB4S100 (Current Product) | TZB4Z100 (Alternative Product) |
|--------------------------------|-------------------------------|-----------------------------------|
| Temperature Characteristics | -150±300ppm/°C | 0±300ppm/°C |

3. Product Withdrawal Schedule:

Last Time Order Due (*): Apr.,30,2017
End of Production: Sep.,30,2017
Last Date of Shipment: Dec.,22,2017

*: Last Time Order is the subject to Minimum Order Quantity and Package Quantity.

Order Cancel and Product Return can be accepted only in the case of quality issue.

4. Feedback Due:

Jan. 31, 2016

Please indicate your feedback to Murata in writing by the Feedback Due, whether you approve this Notice or need further discussion and/or adjustments 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. Senior Manager / Thermistor and Variable Products Dept. Yoshitaka Nagao



Document No.: DM-TA16-006-D0584

Confirmation Letter

PK COMPONENTS ELEKT.BAUELEM. VERTR. GMBH

Murata Manufacturing, Co., Ltd.

Product Withdrawal Confirmation

| Product W | /ithdrawal detailed below is Subject to Further Discussion Accepted. Product Type: Trimmer Capacitor TZB4S100 Series Last Time Order Due: | Apr.,30,2017 |
|-----------|--|--------------|
| | Requests, Questions, Comments, etc. | 1 |
| | | |
| | | |
| | Signature | |
| | Date: (MM, DD, YYYY) | |
| | Title: | |
| | Name: | |



添付文書番号/For Document Number: D0584 SH

納入実績

Sales History

弊社に登録されている貴社品番は下記になります。

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

下記に記載の無い貴社品番につきましても、弊社の対象品種については申し入れに含むことと致します。

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.

代替品: ピン配置、電気的特性など現行納入品と同じもの及び異なるものも含みます。

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

| 口座番号 | お客様名 | 貴社品番 | 弊社品番 | 代替品 | 納入数 (単位: 個) | | | | | |
|---------|--|-----------------|-----------------|-----------------|-------------------------------|-------|-------|-------|-------|-------------|
| Account | Customer Name | Customer | Murata | Alternative | Sales Quantity (Unit: pieces) | | | | | |
| | | Part Number | Part Number | Part Number | '11FY | '12FY | '13FY | '14FY | '15FY | '16FY(Jul.) |
| D0584 | PK COMPONENTS ELEKT.BAUELEM. VERTR. GMBH | TZB4S100AB10R00 | TZB4S100AB10R00 | TZB4Z100AB10R00 | 1,000 | 2,000 | 1,000 | 1,000 | 0 | 0 |



Cross Reference TZB4S100 vs TZB4Z100

Document No.:DM-TA16-006 Appendix

温度特性を除きすべてのスペックは同一です.代替品は、現行品よりも温度特性が改善されています.

/ All of the specifications except for the temperature characteristics are the same.

Regarding the temperature charecteristics, the alternative product is made an improvement compare with the existent product.

| | Spec./Part Number | TZB4 S 100****** (現行品/Existent Product) | | TZB4 <mark>Z</mark> 100****** (代替品/Alternative Product) | | |
|---|-------------------------------------|--|--------------|--|---------------------|--|
| 1 | 温度特性 Temperature Characteristics | 150±300ppm/℃ | | | 0±300ppm/℃ | |
| 2 | 静電容量最小値 Cap. Min. | 3pF | | | | |
| 3 | 静電容量最大値 Cap. Max. | 10pF | | | | |
| 4 | Q | 500 min. | | | | |
| 5 | 定格電圧 Rated Voltage | 100Vdc | | | | |
| 6 | 耐電圧 Withsatanding Voltage | 220Vdc | | | | |
| 7 | 外観色 Case Color | White | | | | |
| 8 | 寸法 Dimension | A Type (TZB4 ■ 100A) 1.4±0.1 dia. 4.5±0.2 2.7±0.3 | B Type (TZB4 | ■ 100B) | E Type(TZB4 ■ 100E) | |