



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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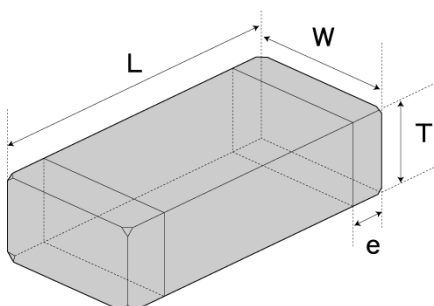
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## Multilayer Ceramic Capacitors (High dielectric type) for Automotive / Industrial Applications

## TMK316BJ106MLHT



## ■ Features

- Item Summary  
10uF $\pm$ 20%, 25V,  
X5R, 1206/3216 (EIA/JIS)
- Lifecycle Stage  
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping Embossed 2000pcs

## ■ Products characteristics table

|   |                          |
|---|--------------------------|
| Capacitance                                   | 10 uF $\pm$ 20 %         |
| Case Size (EIA/JIS)                           | 1206/3216                |
| Rated Voltage                                 | 25 V                     |
| $\tan \delta$ (max)                           | 5 %                      |
| Temperature Characteristic (EIA)              | X5R                      |
| Operating Temp. Range (EIA)                   | -55 to +85 °C            |
| High Temperature Loading<br>(% Rated Voltage) | 150 %                    |
| Insulation Resistance (min)                   | 100 M $\Omega$ · $\mu$ F |
| RoHS2 Compliance (10 subst.)                  | Yes                      |
| REACH Compliance (181 subst.)                 | Yes                      |
| Halogen Free                                  | Yes                      |
| Soldering                                     | Reflow                   |

## ■ External Dimensions

|             |                     |
|-------------|---------------------|
| Dimension L | 3.2 $\pm$ 0.15 mm   |
| Dimension W | 1.6 $\pm$ 0.15 mm   |
| Dimension T | 1.6 $\pm$ 0.20 mm   |
| Dimension e | 0.50 +0.35/-0.25 mm |

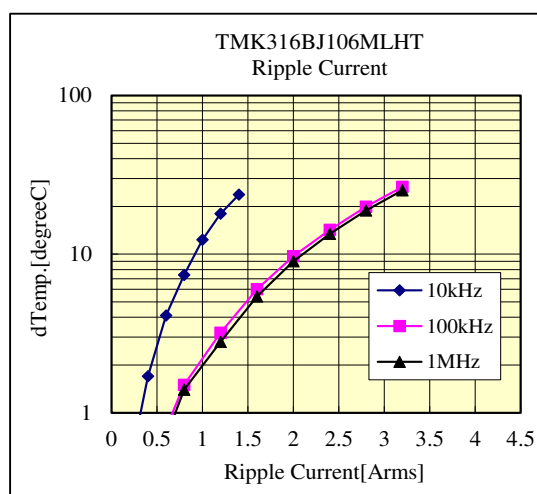
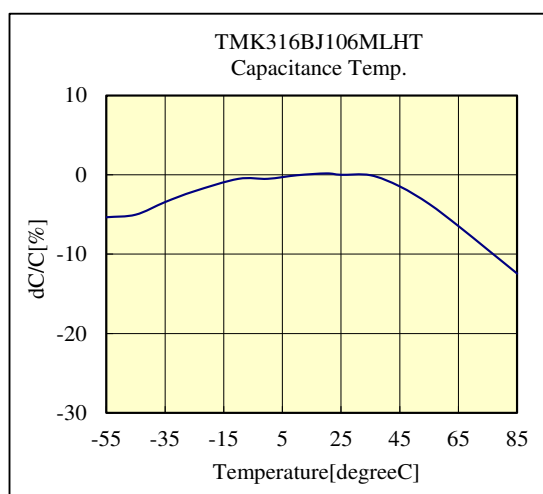
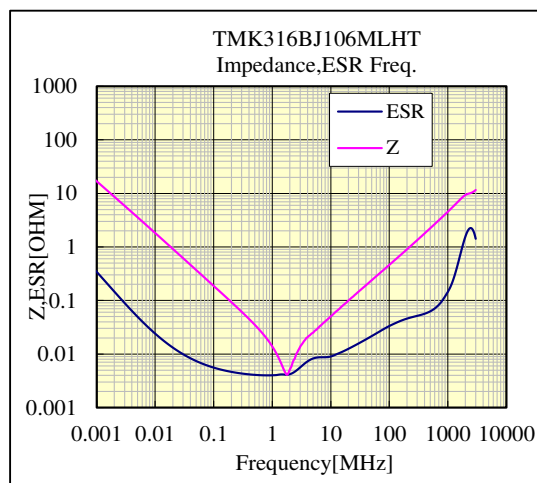
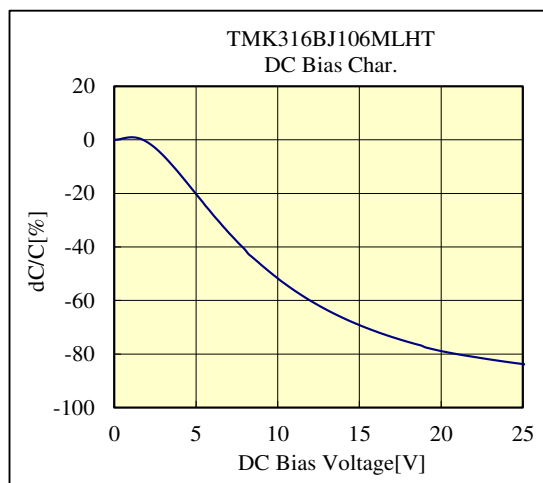
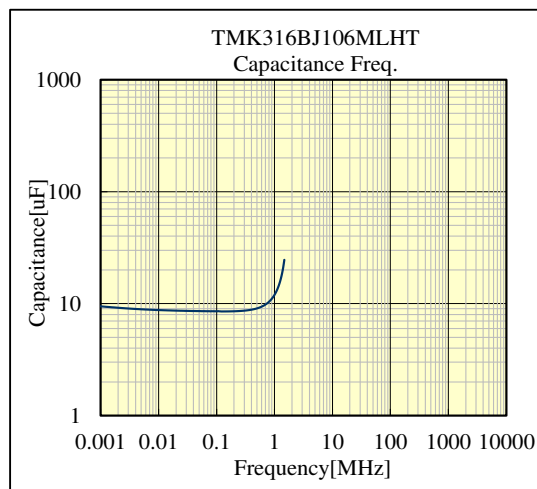
2018.08.22

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.  
 TAIYO YUDEN reserves the right to make change to the data at any time without notice.  
 Before making final selection, please check product specification.

### ○TMK316BJ106MLHT

25V 3216 X5R 10uF +/- 20% t=1.8mmMAX

25V 1206 X5R 10uF +/- 20% t=0.071inchMAX



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Please read this notice before using the TAIYO YUDEN products.



## REMINDERS

- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The product listed in this spec sheet is intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment), medical equipment classified as Class I or II by IMDRF, industrial equipment, and automotive interior applications, etc. Please be sure to contact TAIYO YUDEN for further information before using the product for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, medical equipment classified as Class III by IMDRF).

Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment\*, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).

\*Note: There is a possibility that our products can be used only for aviation equipment that does not directly affect the safe operation of aircraft (e.g., in-flight entertainment, cabin light, electric seat, cooking equipment) if such use meets requirements specified separately by TAIYO YUDEN. Please be sure to contact TAIYO YUDEN for further information before using our products for such aviation equipment.

When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.

Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the product listed in this spec sheet for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

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The product listed in this spec sheet may require specific procedures for export according to “U.S. Export Administration Regulations”, “Foreign Exchange and Foreign Trade Control Law” of Japan, and other applicable regulations. Should you have any questions on this matter, please contact our sales staff.