

## Spec Sheet

MLCC (High dielectric type) for Telecommunications Infrastructure and Industrial Equipment / Medical Devices

# UMK316B7105KL8T



### ■ Features

- Item Summary  
1 $\mu$ F $\pm$ 10%, 50V,  
X7R, 1206/3216 (EIA/JIS)
- Lifecycle Stage  
Mass Production (Preferred)
- Standard packaging quantity (minimum)  
Taping Embossed 2000pcs

### ■ Products characteristics table

Capacitance	1 $\mu$ F $\pm$ 10 %
Case Size (EIA/JIS)	1206/3216
Rated Voltage	50 V
tan $\delta$ (max)	3.5 %
Temperature Characteristic (EIA)	X7R
Operating Temp. Range (EIA)	-55 to +125 $^{\circ}$ C
High Temperature Loading (% Rated Voltage)	200 %
Insulation Resistance (min)	100 M $\Omega$ · $\mu$ F
RoHS Compliance (10 subst.)	Yes
REACH Compliance (209 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

2021.07.01

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.

## Multi Layer Ceramic Capacitor

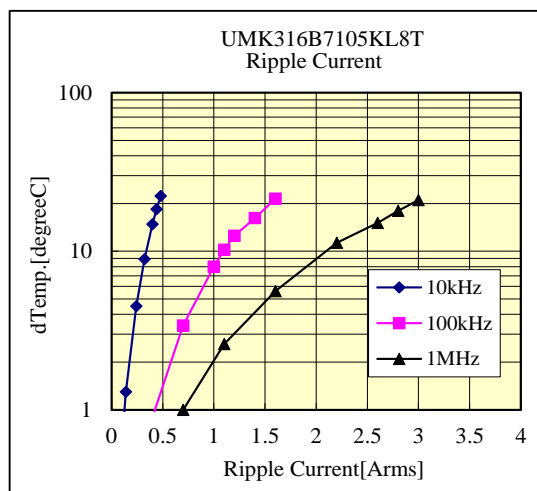
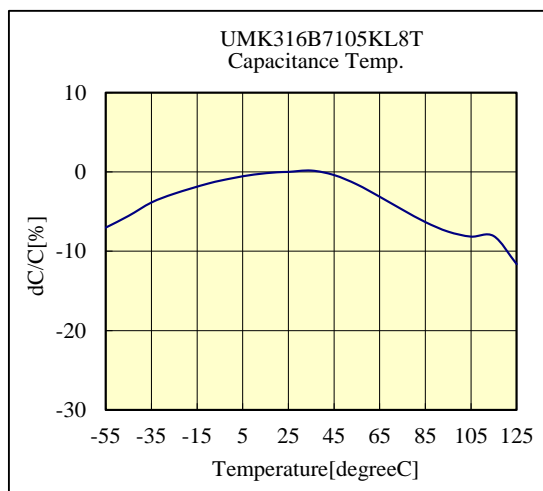
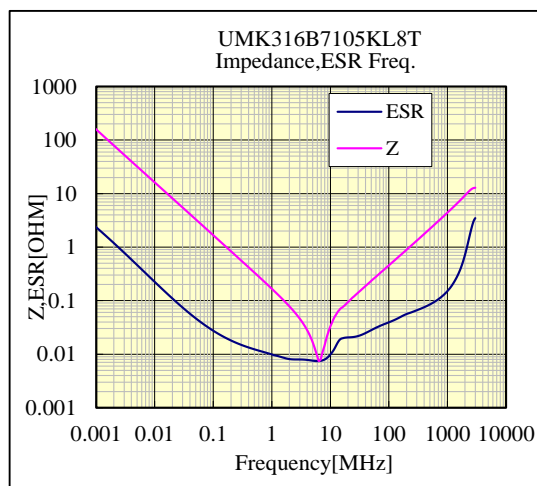
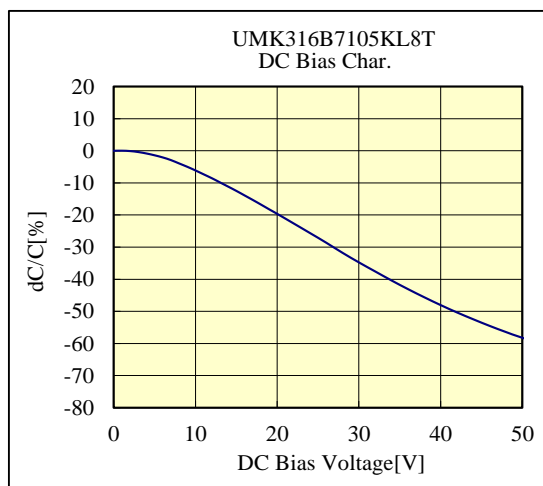
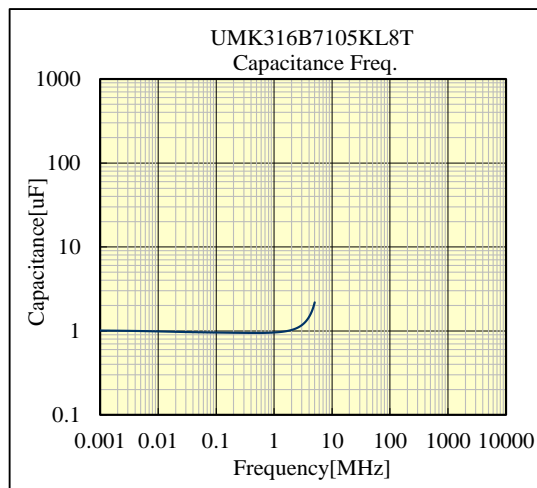
-Electrical Characteristics Data-

17U1A08

RoHS compliance product

### ○UMK316B7105KL8T

**50V 3216 X7R 1uF +/- 10% t=1.8mmMAX**  
**50V 1206 X7R 1uF +/- 10% t=0.071inchMAX**



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Before making final selection, please check product specification.

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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.

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[>>Taiyo Yuden\(太阳诱电\)](#)