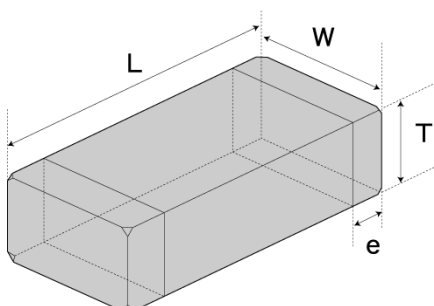


## Spec Sheet

MLCC (High dielectric type) for Automotive (BODY & CHASSIS, INFOTAINMENT) Applications

# EMK105B7104KVHF



### ■ Features

- Item Summary  
0.1 $\mu$ F $\pm$ 10%, 16V,  
X7R, 0402/1005 (EIA/JIS)
- Lifecycle Stage  
Mass Production (Preferred)
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping Paper 10000pcs

### ■ Products characteristics table

|                                               |                                |
|-----------------------------------------------|--------------------------------|
| Capacitance                                   | 0.1 $\mu$ F $\pm$ 10 %         |
| Case Size (EIA/JIS)                           | 0402/1005                      |
| Rated Voltage                                 | 16 V                           |
| $\tan \delta$ (max)                           | 5 %                            |
| Temperature Characteristic (EIA)              | X7R                            |
| Operating Temp. Range (EIA)                   | -55 to +125 $^{\circ}$ C       |
| High Temperature Loading<br>(% Rated Voltage) | 150 %                          |
| Insulation Resistance (min)                   | 500 M $\Omega$ $\cdot$ $\mu$ F |
| RoHS Compliance (10 subst.)                   | Yes                            |
| REACH Compliance (209 subst.)                 | Yes                            |
| Halogen Free                                  | Yes                            |
| Soldering                                     | Reflow                         |

### ■ External Dimensions

|             |                    |
|-------------|--------------------|
| Dimension L | 1.0 $\pm$ 0.05 mm  |
| Dimension W | 0.5 $\pm$ 0.05 mm  |
| Dimension T | 0.5 $\pm$ 0.05 mm  |
| Dimension e | 0.25 $\pm$ 0.10 mm |

2021.10.09

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-

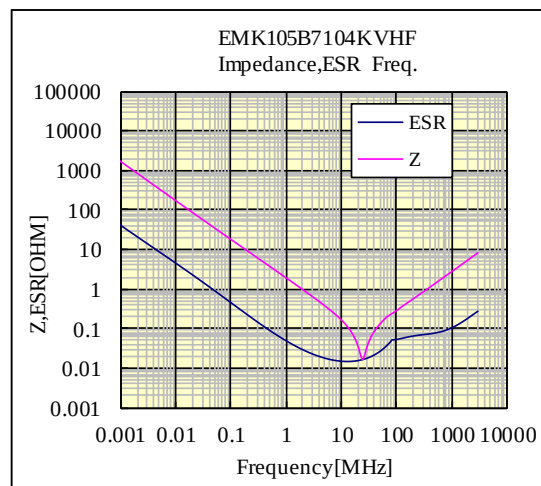
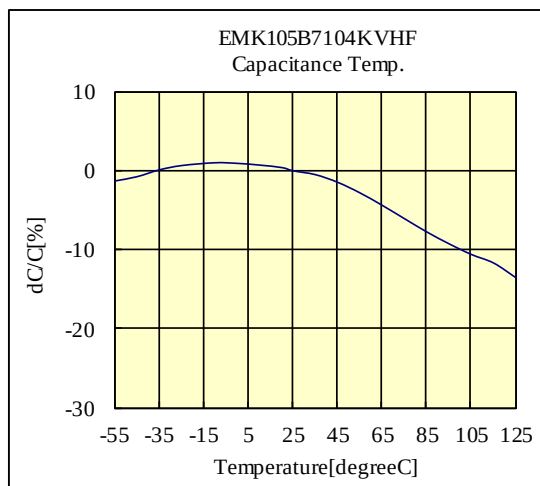
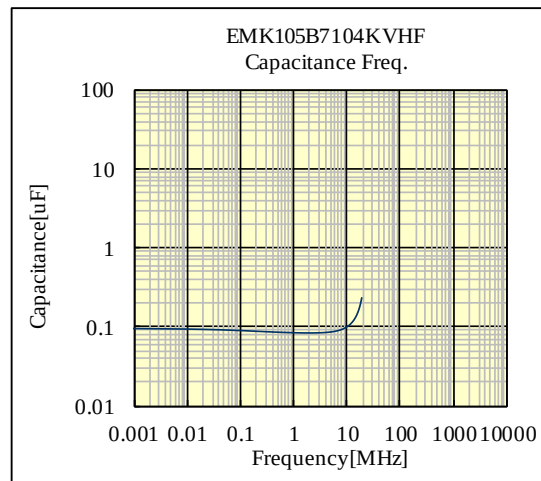
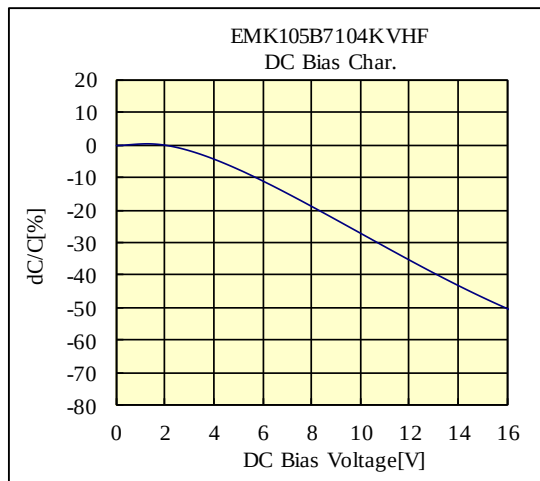
18QA06

RoHS compliance product

### ○EMK105B7104KVHF

16V 1005 X7R 0.1 $\mu$ F +/- 10% t=0.55mmMAX

16V 0402 X7R 0.1 $\mu$ F +/- 10% t=0.022inchMAX



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The data is reference only. Electrical characteristics vary depending on environment or measurement condition.

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Before making final selection, please check product specification.

Please read this notice before using the TAIYO YUDEN products.



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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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