

# Spec Sheet

MLCC (Temperature compensating type) for Automotive (BODY & CHASSIS, INFOTAINMENT) Applications

## UMK105CG010CVHF



### ■ Features

- Item Summary  
1pF±0.25pF, 50V,  
C0G/CG, 0402/1005 (EIA/JIS)
- Lifecycle Stage  
Mass Production (Preferred)
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping Paper 10000pcs

### ■ Products characteristics table

|   |                |
|---|----------------|
| Capacitance                                   | 1 pF ± 0.25pF  |
| Case Size (EIA/JIS)                           | 0402/1005      |
| Rated Voltage                                 | 50 V           |
| Q (min)                                       | 420 at 1MHz    |
| Temperature Characteristic (EIA)              | C0G            |
| Operating Temp. Range (EIA)                   | -55 to +125 °C |
| Temperature Characteristic (JIS)              | CG             |
| Operating Temp. Range (JIS)                   | -55 to +125 °C |
| Temperature Characteristic                    | 0 ±30 ppm/°C   |
| High Temperature Loading<br>(% Rated Voltage) | 200 %          |
| Insulation Resistance (min)                   | 10 GΩ          |
| RoHS Compliance (10 subst.)                   | Yes            |
| REACH Compliance (209 subst.)                 | Yes            |
| Halogen Free                                  | Yes            |
| Soldering                                     | Reflow         |

### ■ External Dimensions

|             |               |
|-------------|---------------|
| Dimension L | 1.0 ±0.05 mm  |
| Dimension W | 0.5 ±0.05 mm  |
| Dimension T | 0.5 ±0.05 mm  |
| Dimension e | 0.25 ±0.10 mm |

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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-

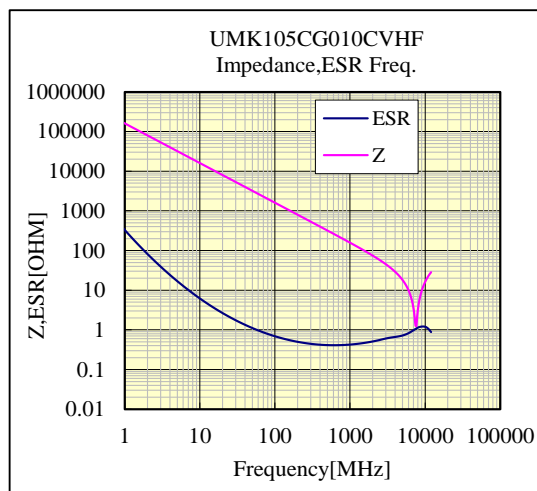
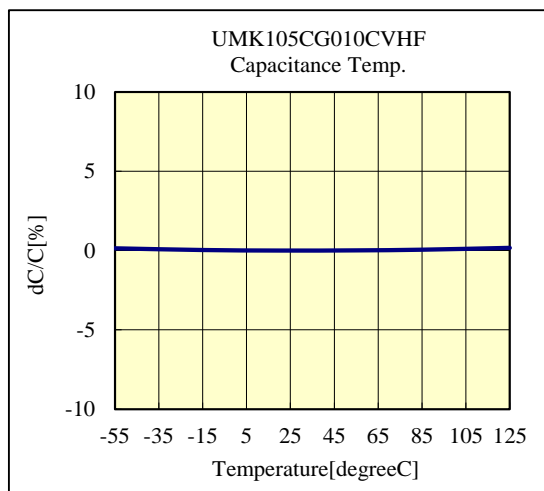
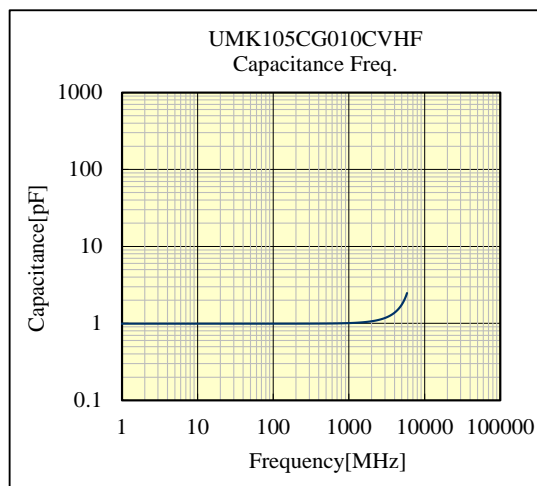
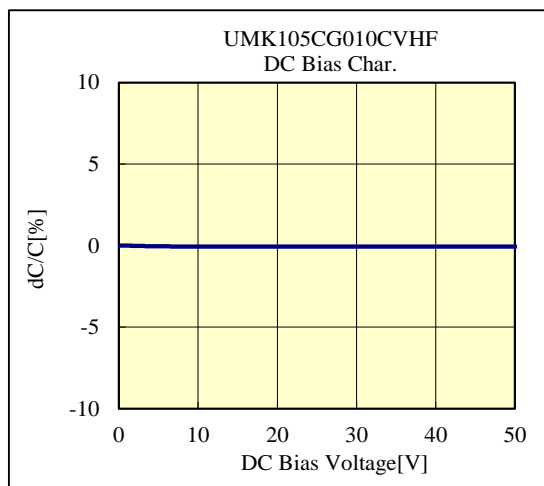
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RoHS compliance product

### ○UMK105CG010CVHF

50V 1005 CG/C0G 1pF +/- 0.25pF t=0.55mmMAX

50V 0402 CG/C0G 1pF +/- 0.25pF t=0.022inchMAX



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Before making final selection, please check product specification.

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