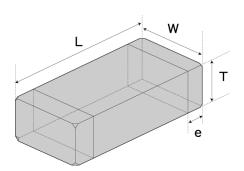
### **Spec Sheet**

Multilayer Ceramic Capacitors (Temperature compensating type) for Automotive (BODY & CHASSIS, INFOTAINMENT) / Industrial Applications

# UMK105CG101JVHF



#### Features

- Item Summary
   100pF±5%, 50V,
   C0G/CG, 0402/1005 (EIA/JIS)
- Lifecycle Stage
- Mass Production
  AEC-Q200 qualified
- Standard packaging quantity (minimum)

Taping paper 10000pcs

#### Products characteristics table

Capacitance	100 pF ± 5 %
Case Size (EIA/JIS)	0402/1005
Rated Voltage	50 V
Q (min)	1000 at 1MHz
Temperature Characteristic (EIA)	COG
Operating Temp. Range (EIA)	-55 to +125 ℃
Temperature Characteristic (JIS)	СС
Operating Temp. Range (JIS)	-55 to +125 ℃
Temperature Characteristic	0 ±30 ppm/℃
High Temperature Loading (% Rated Voltage)	200 %
Insulation Resistance (min)	10 GΩ
RoHS Compliance (10 subst.)	Yes
REACH Compliance (191 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

2019.06.04

## TAIYO YUDEN

### **Multi Layer Ceramic Capacitor**

-Electrical Characteristics Data-

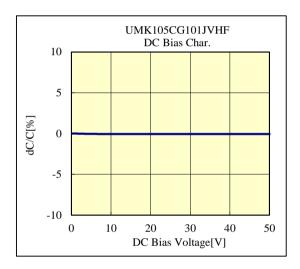
17CDD07

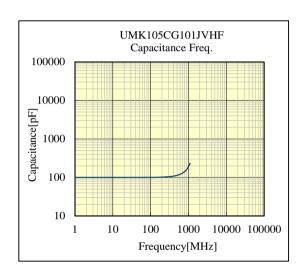
RoHS compliance product

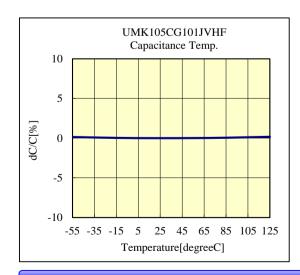
### ○UMK105CG101JVHF

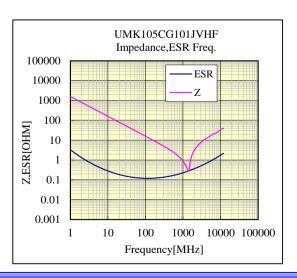
50V 1005 CG/C0G 100pF +/- 5% t=0.55mmMAX 50V 0402 CG/C0G 100pF +/- 5% t=0.022inchMAX











部品特性は設置環境、測定条件等により変化する場合があります。本データをご使用される際は実際の製品特性に対する参考 データとしてご活用ください。また、本データは予告無く追加・削除及び変更を行う場合があります。ご注文の際は、納入仕様書の ご確認をお願いします。

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.

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.

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