

MLCC for Automotive (POWERTRAIN, SAFETY) Applications

UMF105B7103MVHF



■ Features

- Item Summary
0.01 $\mu\text{F} \pm 20\%$, 50V,
X7R, 0402/1005 (EIA/JIS)
- Lifecycle Stage
Mass Production (Preferred)
- AEC-Q200 qualified
- Standard packaging quantity (minimum)
Taping Paper 10000pcs

■ Products characteristics table

Capacitance	0.01 $\mu\text{F} \pm 20\%$
Case Size (EIA/JIS)	0402/1005
Rated Voltage	50 V
$\tan \delta$ (max)	3.5 %
Temperature Characteristic (EIA)	X7R
Operating Temp. Range (EIA)	-55 to +125 °C
High Temperature Loading (% Rated Voltage)	200 %
Insulation Resistance (min)	10 G Ω
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

2021.06.22

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.

Multi Layer Ceramic Capacitor

-Electrical Characteristics Data-

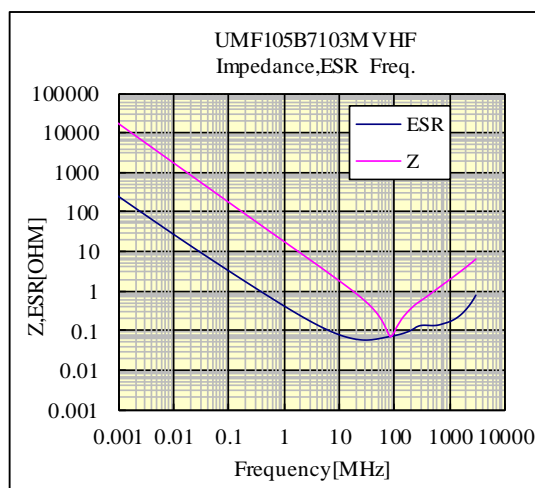
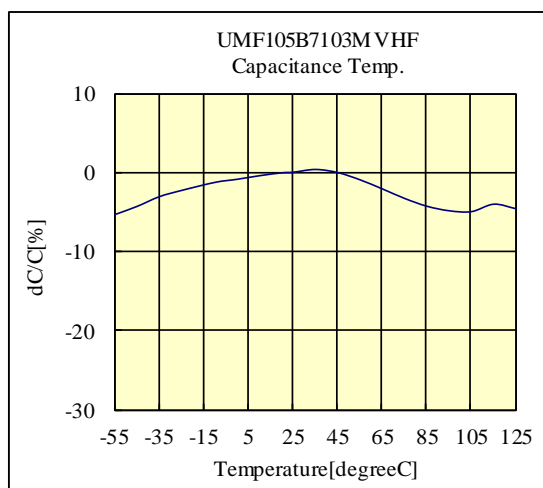
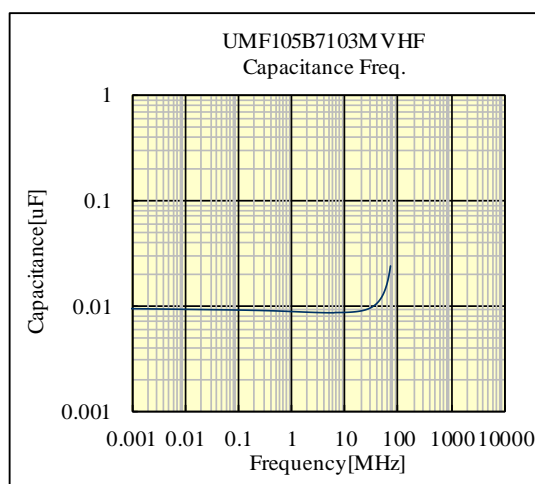
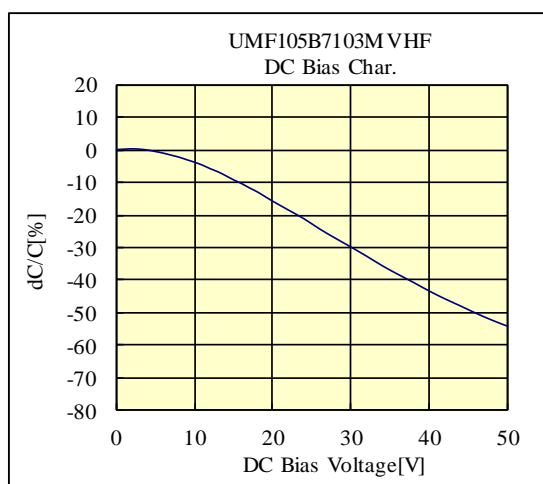
18QA06

RoHS compliance product

○UMF105B7103MVHF

50V 1005 X7R 0.01 μ F +/- 20% t=0.55mmMAX

50V 0402 X7R 0.01 μ F +/- 20% t=0.022inchMAX



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Please read this notice before using the TAIYO YUDEN products.



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- 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).

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