

Spec Sheet

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

EMK212B7105MGHT



■ Features

- Item Summary
1 μ F \pm 20%, 16V,
X7R, 0805/2012 (EIA/JIS)
- Lifecycle Stage
Non-preferred
- AEC-Q200 qualified
- Standard packaging quantity (minimum)
Taping Embossed 3000pcs

■ Products characteristics table

Capacitance	1 μ F \pm 20 %
Case Size (EIA/JIS)	0805/2012
Rated Voltage	16 V
$\tan \delta$ (max)	3.5 %
Temperature Characteristic (EIA)	X7R
Operating Temp. Range (EIA)	-55 to +125 °C
High Temperature Loading (% Rated Voltage)	150 %
Insulation Resistance (min)	500 M Ω · μ F
RoHS Compliance (10 subst.)	Yes
REACH Compliance (209 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

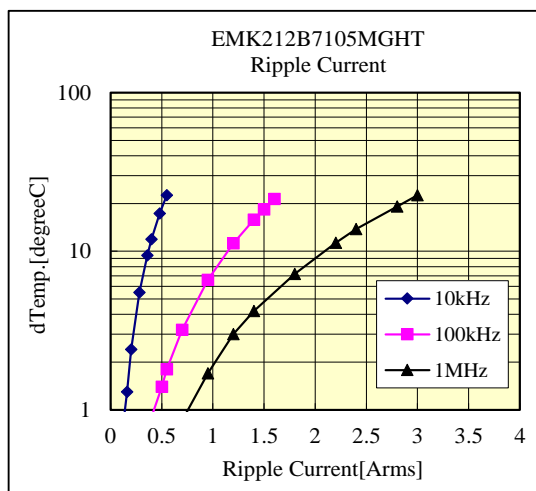
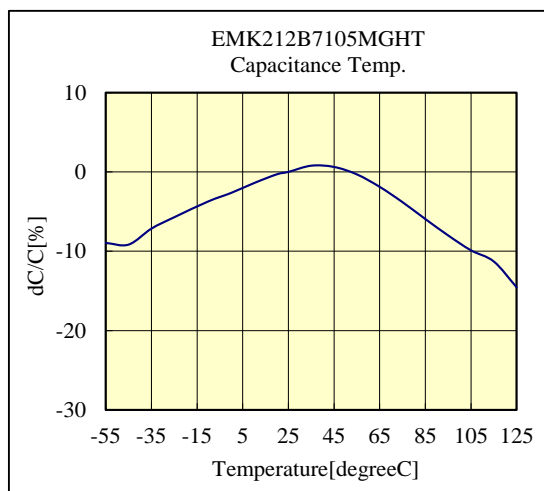
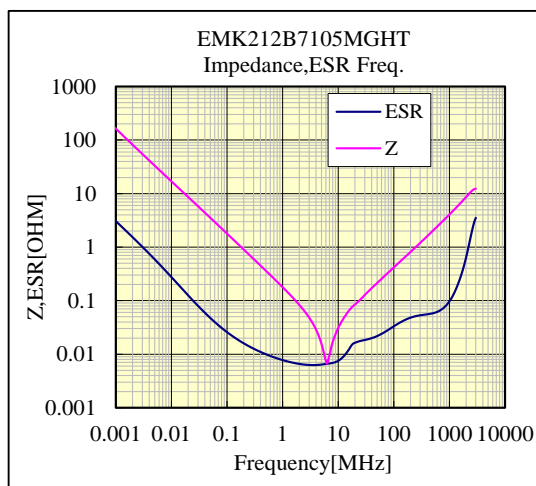
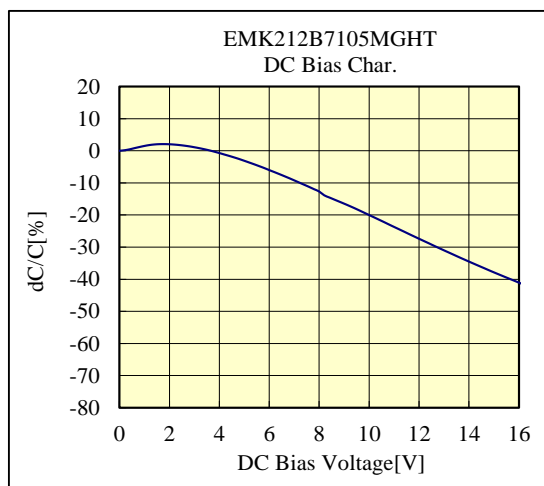
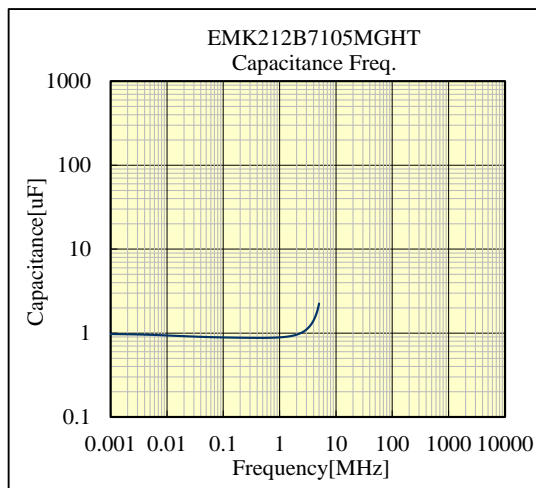
Dimension L	2.0 \pm 0.10 mm
Dimension W	1.25 \pm 0.10 mm
Dimension T	1.25 \pm 0.10 mm
Dimension e	0.50 \pm 0.25 mm

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.

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16V 2012 X7R 1uF +/- 20% t=1.35mmMAX
16V 0805 X7R 1uF +/- 20% t=0.053inchMAX



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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).

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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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[>>Taiyo Yuden\(太阳诱电\)](#)