

Multilayer Ceramic Capacitors (High dielectric type)

EMK042B7681MC-W



■ Features

- Item Summary
680pF $\pm$ 20%, 16V,
X7R, 01005/0402 (EIA/JIS)
- Lifecycle Stage
Mass Production (Preferred)
- Standard packaging quantity (minimum)
Taping Embossed 40000pcs

■ Products characteristics table

Capacitance	680 pF $\pm$ 20 %
Case Size (EIA/JIS)	01005/0402
Rated Voltage	16 V
$\tan \delta$ (max)	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	0.4 $\pm$ 0.02 mm
Dimension W	0.2 $\pm$ 0.02 mm
Dimension T	0.2 $\pm$ 0.02 mm
Dimension e	0.10 $\pm$ 0.03 mm

2021.09.21

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-

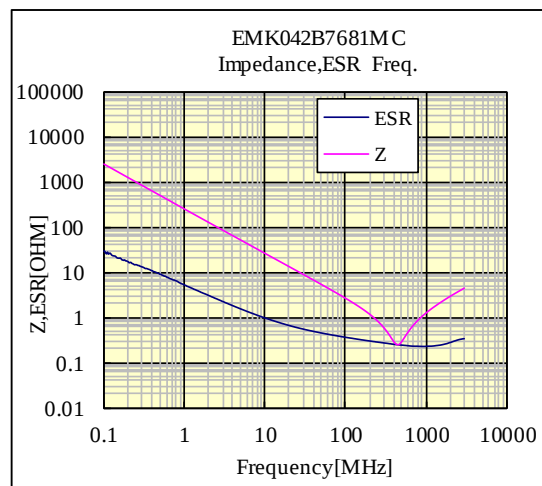
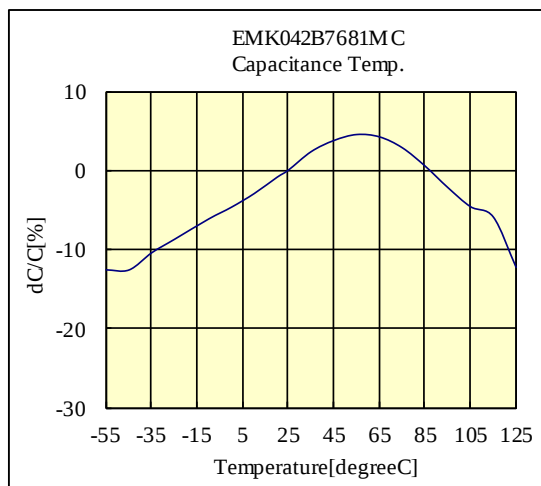
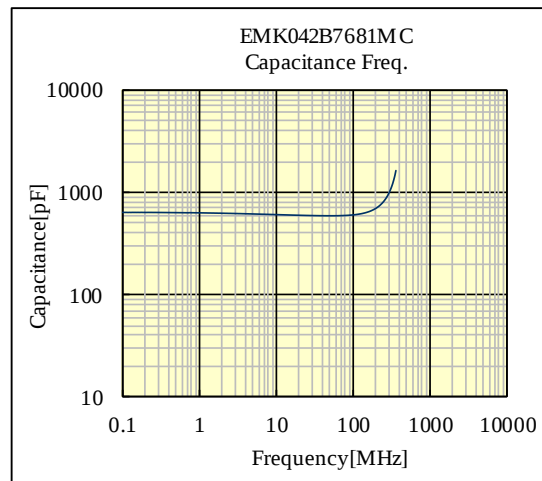
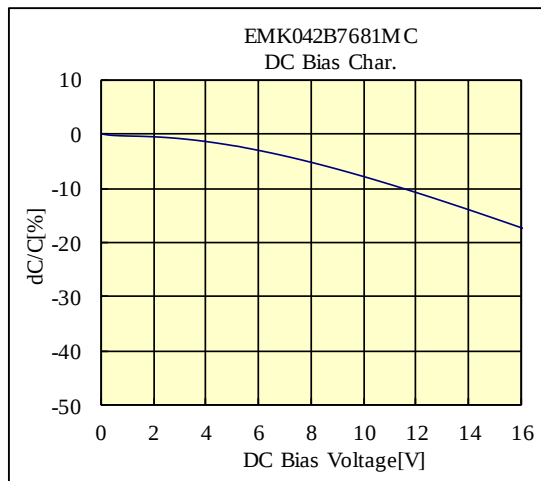
20SA03

RoHS compliance product

○EMK042B7681MC

16V 0402 X7R 680pF +/- 20% t=0.22mmMAX

16V 01005 X7R 680pF +/- 20% t=0.009inchMAX



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Please read this notice before using the TAIYO YUDEN products.



REMINDERS

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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 including, without limitation, mobile phone, and PC) and medical equipment classified as Class I or II by IMDRF. Please be sure to contact TAIYO YUDEN for further information before using the products 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, disaster prevention equipment, medical equipment classified as Class III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).

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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