### **Spec Sheet**

# Multilayer Ceramic Capacitors (High dielectric type) EMK107BJ105KK-T



#### Features

- Item Summary
- 1uF±10%, 16V,
- X5R, 0603/1608 (EIA/JIS)
- Lifecycle Stage
- Mass Production (Preferred)
- Standard packaging quantity (minimum)
  - Taping Paper 4000pcs

#### Products characteristics table

Capacitance	1 uF ± 10 %
Case Size (EIA/JIS)	0603/1608
Rated Voltage	16 V
tanδ (max)	10 %
Temperature Characteristic (EIA)	X5R
Operating Temp. Range (EIA)	-55 to +85 ℃
High Temperature Loading (% Rated Voltage)	150 %
Insulation Resistance (min)	100 ΜΩ·μF
RoHS Compliance (10 subst.)	Yes
REACH Compliance (205 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

### External Dimensions

Dimension L	1.6 ±0.10 mm
Dimension W	0.8 ±0.10 mm
Dimension T	$0.45 \pm 0.05 \ { m mm}$
Dimension e	$0.35 \pm 0.25 \text{ mm}$

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. 2020.05.02

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# **Multi Layer Ceramic Capacitor**

-Electrical Characteristics Data-

19HA11

RoHS compliance product

### ○EMK107BJ105KK

20

0

-20

-60

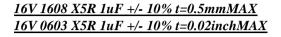
-80

-100

0

2 4 6 8

[%]) -40





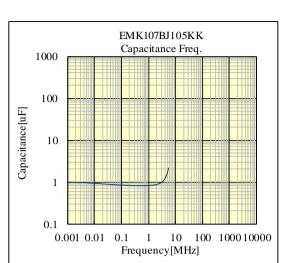
EMK107BJ105KK

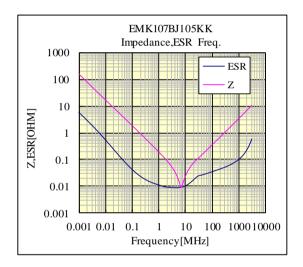
DC Bias Char.

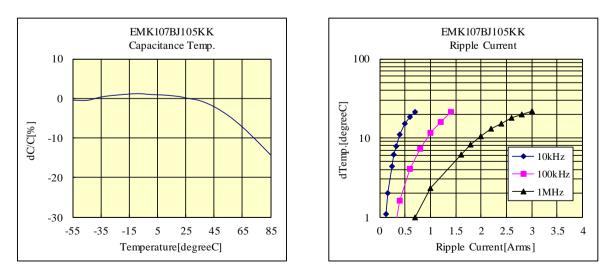
10 12

DC Bias Voltage[V]

14 16







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## REMINDERS

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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).

\*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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