

# Spec Sheet

Multilayer Ceramic Capacitors (High dielectric type) for Automotive Body & Chassis and Infotainment

## MCAST105SB7103KFNA1J (Previous PN: TMK105B7103KVHF)



### ■ Features

- Item Summary  
0.01 $\mu$ F $\pm$ 10%, 25V,  
X7R, 0402/1005 (EIA/JIS)
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Paper 10000pcs

### ■ Products characteristics table

Capacitance	0.01 $\mu$ F $\pm$ 10 %
Case Size (EIA/JIS)	0402/1005
Rated Voltage	25 V
$\tan \delta$ (max)	3.5 %
Temperature Characteristic (EIA)	X7R
Operating Temp. Range (EIA)	-55 to +125 $^{\circ}$ C
Capacitance Change(EIA)	$\pm$ 15 %
High Temperature Loading (% Rated Voltage)	200 %
Insulation Resistance (min)	10 G $\Omega$
Derating	STD
RoHS Compliance (10 subst.)	Yes
REACH Compliance (251 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

### ■ External Dimensions

Dimension L	1.0 $\pm$ 0.05 mm
Dimension W	0.5 $\pm$ 0.05 mm
Dimension T	0.5 $\pm$ 0.05 mm
Dimension e	0.25 $\pm$ 0.10 mm

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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.