

# CGA3E1X7R1V105K080AE

TDK item description : CGA3E1X7R1V105KT\*\*\*S



Equivalent C1608X7R1V105K for Automotive

## Application & Main Feature

Automotive grade (Soft termination)

## Series

CGA3(1608) [EIA 0603]



## Dimensions

L 1.60+0.20,-0.10 mm  
 W 0.80+0.15,-0.10 mm  
 T 0.80+0.15,-0.10 mm  
 B 0.20 mm min.  
 G 0.30 mm min.

## Temperature Characteristic

X7R (-55 to +125 degC, ±15%)

## Rated Voltage

1V (35Vdc)

## Capacitance

1µF

## Capacitance Tolerance

K (±10%)

## DF

5 % max.

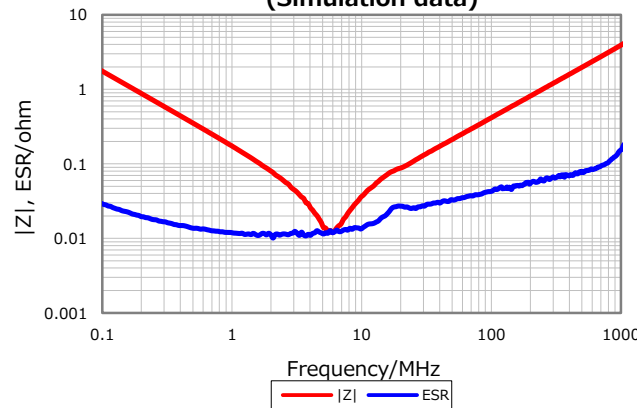
## Insulation Resistance

500 Mohm min.

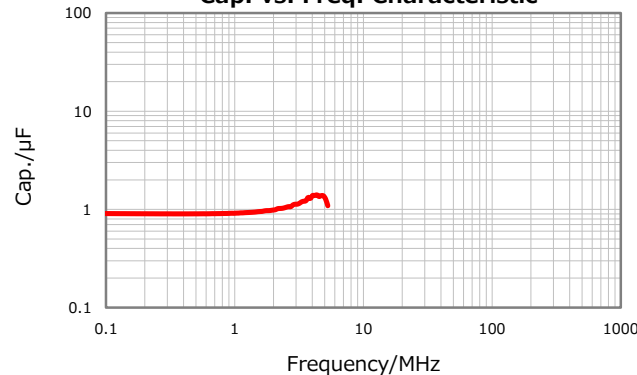
## AEC-Q200

Yes

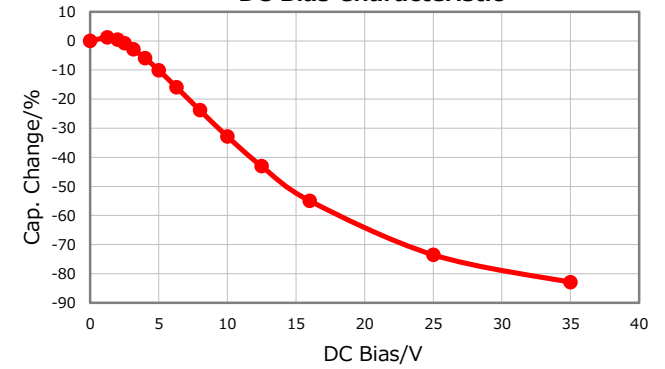
## |Z|, ESR vs. Freq. Characteristics (Simulation data)



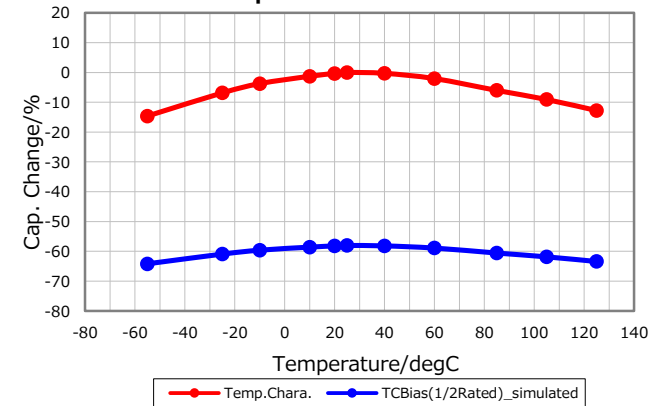
## Cap. vs. Freq. Characteristic



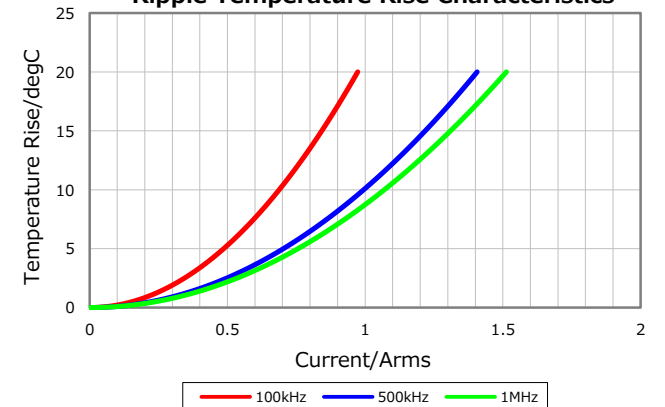
## DC Bias Characteristic



## Temperature Characteristics



## Ripple Temperature Rise Characteristics



Characterization Sheet ( Multilayer Ceramic Chip Capacitors)



⚠ All specifications are subject to change without notice.

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