

# CGA3E2X8R1E683K080AE

TDK Item Description : CGA3E2X8R1E683KT\*\*\*S



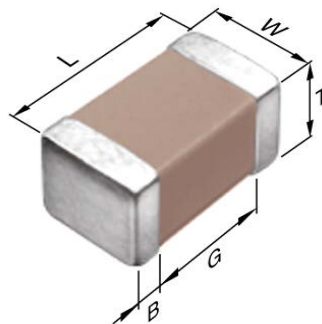
Equivalent C1608X8R1E683K for Automotive

## Application & Main Feature

Automotive Grade ( Soft Termination )

## Series

CGA3(1608) [EIA CC0603]



## Dimensions

|   |                     |
|---|---------------------|
| L | 1.60mm +0.2,-0.1mm  |
| W | 0.80mm +0.15,-0.1mm |
| T | 0.80mm +0.15,-0.1mm |
| B | 0.20mm Min.         |
| G | 0.30mm Min.         |

## Temperature Characteristic

X8R (-55 to 150 degC +/-15%)

## Rated Voltage

1E (25Vdc)

## Capacitance

68nF

## Capacitance Tolerance

K (+/-10%)

## Dissipation Factor

3% Max.

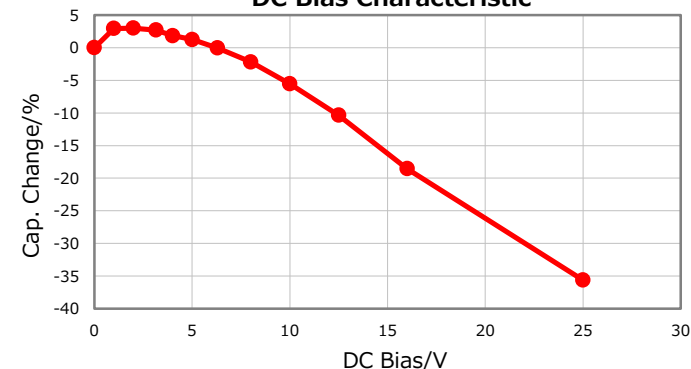
## Insulation Resistance

7.352Gohm Min

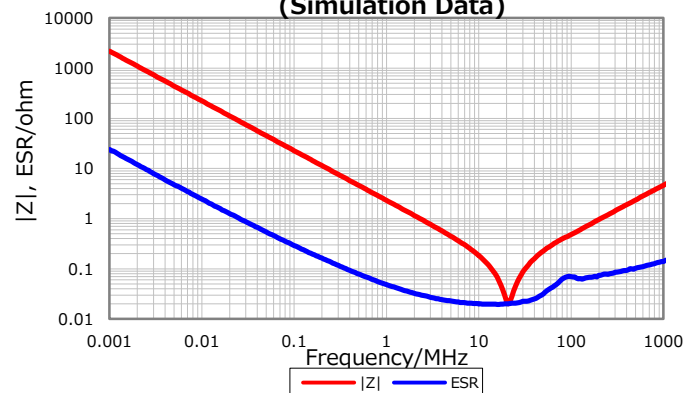
## AEC-Q200

Yes

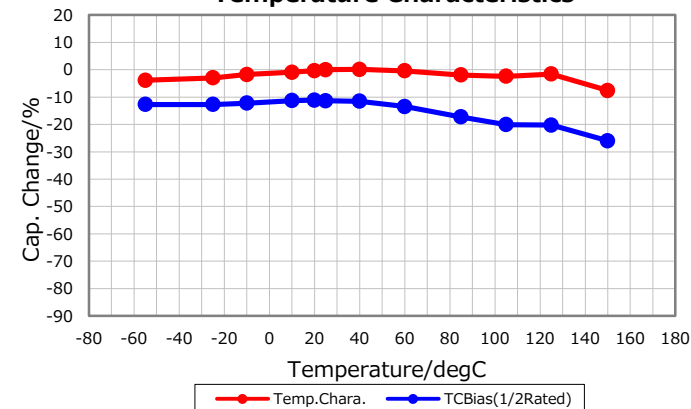
## DC Bias Characteristic



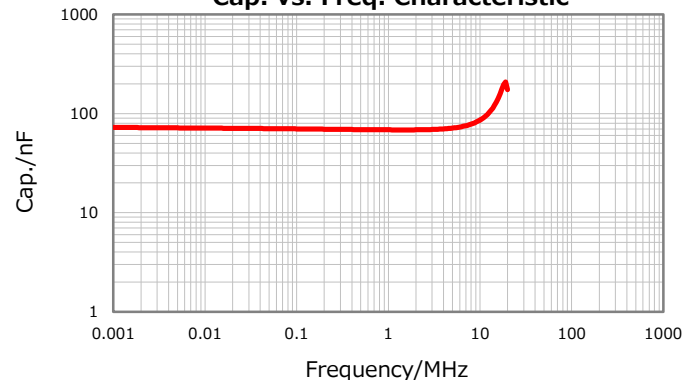
## |Z|, ESR vs. Freq. Characteristics (Simulation Data)



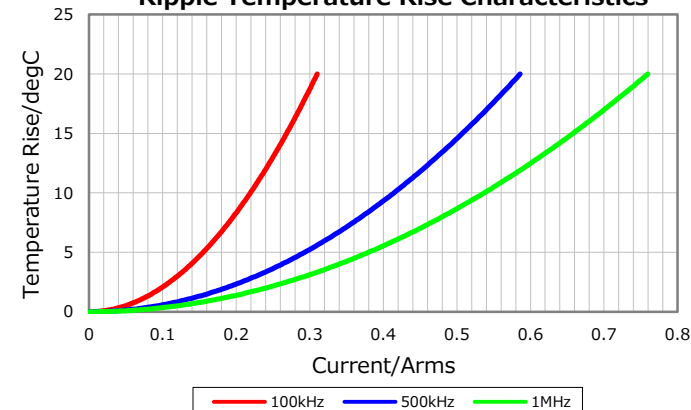
## Temperature Characteristics



## Cap. vs. Freq. Characteristic



## Ripple Temperature Rise Characteristics



All specifications are subject to change without notice.

March 17, 2017