

# CGA1A2X7R1C682K030BA

TDK Item Description : CGA1A2X7R1C682KT\*\*\*\*



## Application & Main Feature

Automotive Grade ( General (Up to 50V) )

## Series

CGA1(0603) [EIA CC0201]



## Dimensions

L 0.60mm +/-0.03mm  
 W 0.30mm +/-0.03mm  
 T 0.30mm +/-0.03mm  
 B 0.10mm Min.  
 G 0.20mm Min.

## Temperature Characteristic

X7R (-55 to 125 degC +/-15%)

## Rated Voltage

1C (16Vdc)

## Capacitance

6.8nF

## Capacitance Tolerance

K (+/-10%)

## Dissipation Factor

5% Max.

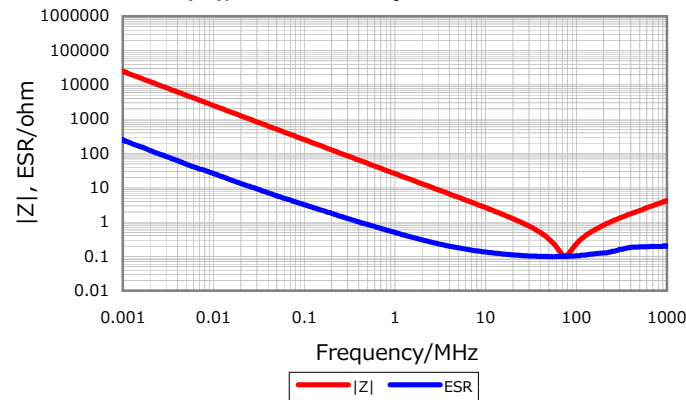
## Insulation Resistance

10Gohm Min.

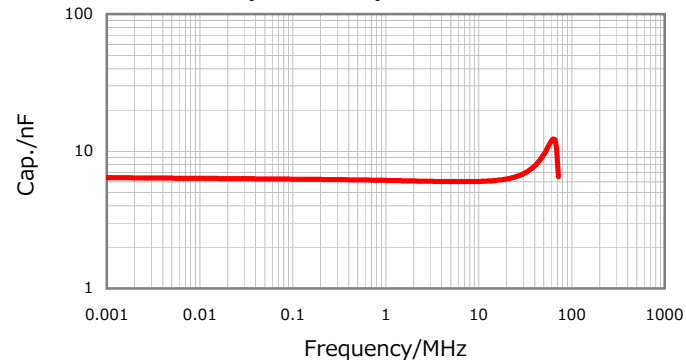
## AEC-Q200

Yes

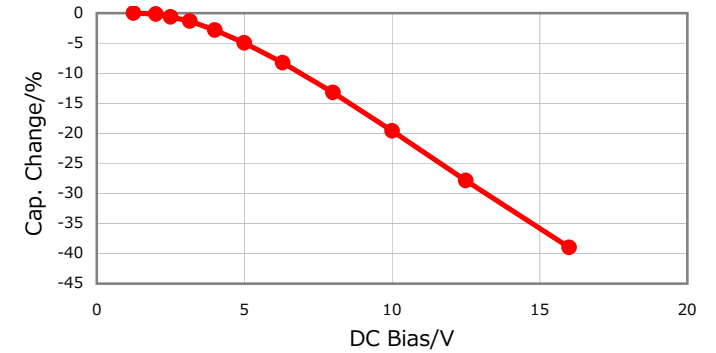
## |Z|, ESR vs. Freq. Characteristics



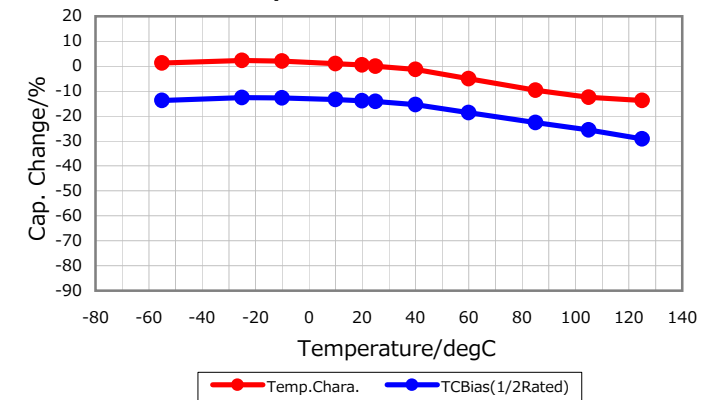
## Cap. vs. Freq. Characteristic



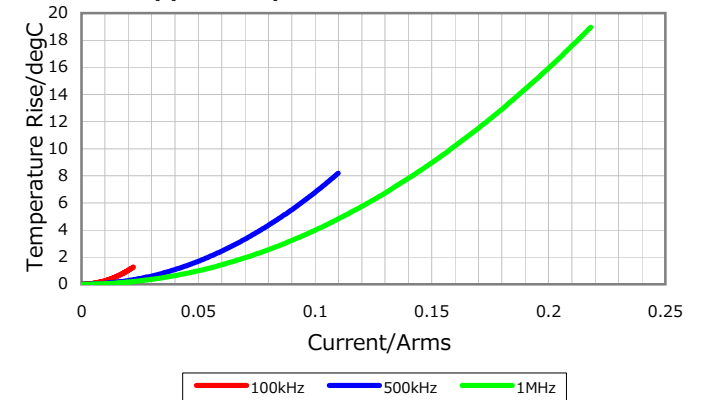
## DC Bias Characteristic



## Temperature Characteristics



## Ripple Temperature Rise Characteristics



Characterization Sheet ( Multilayer Ceramic Chip Capacitors )



All specifications are subject to change without notice.

January 4, 2016