

# C2012X8R1H683M125AE

TDK Item Description : C2012X8R1H683MT\*\*\*S



## Application & Main Feature

Commercial Grade ( Soft Termination )

## Series

C2012 [EIA CC0805]

## Dimensions

|   |                     |
|---|---------------------|
| L | 2.00mm +0.45,-0.2mm |
| W | 1.25mm +0.25,-0.2mm |
| T | 1.25mm +0.25,-0.2mm |
| B | 0.20mm Min.         |
| G | 0.50mm Min.         |

## Temperature Characteristic

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

## Rated Voltage

1H (50Vdc)

## Capacitance

68nF

## Capacitance Tolerance

M (+/-20%)

## Dissipation Factor

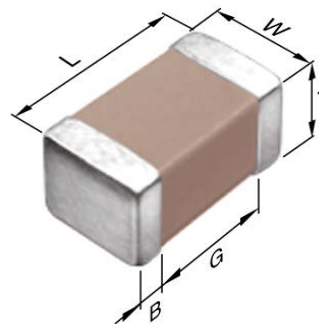
3% Max.

## Insulation Resistance

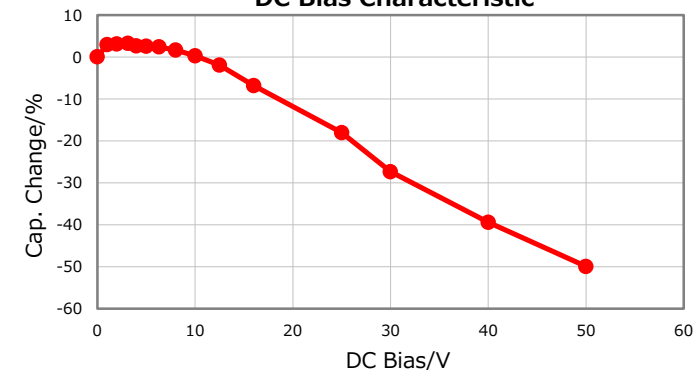
7.352Gohm Min

## AEC-Q200

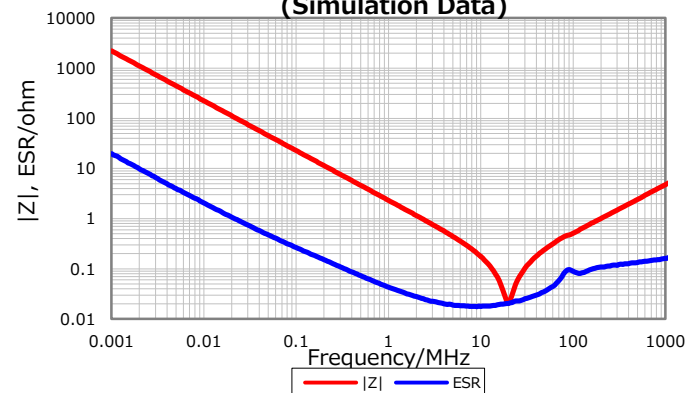
Not Applicable



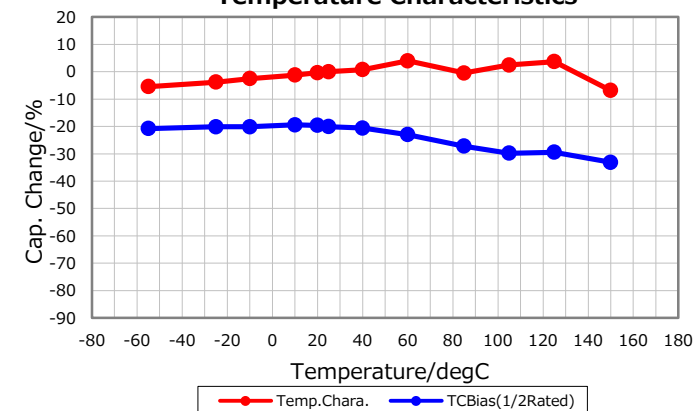
## DC Bias Characteristic



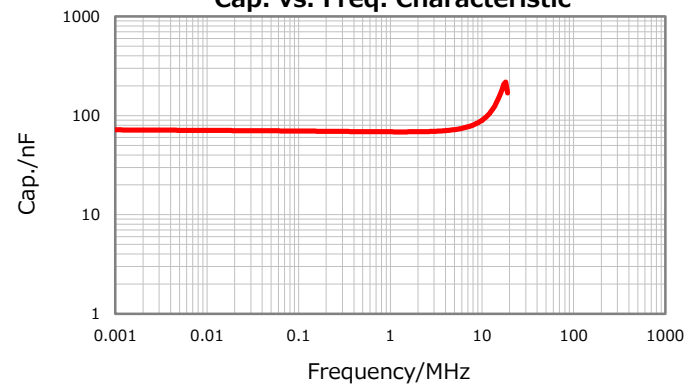
## |Z|, ESR vs. Freq. Characteristics (Simulation Data)



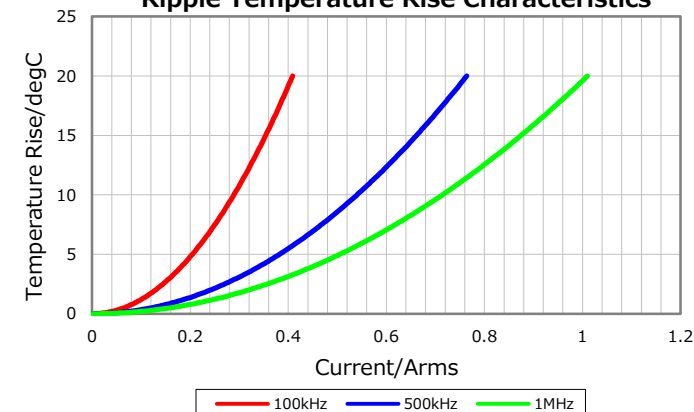
## Temperature Characteristics



## Cap. vs. Freq. Characteristic



## Ripple Temperature Rise Characteristics



All specifications are subject to change without notice.

March 16, 2017