

# Multilayer Ceramic Chip Capacitors

Product Top Page Search by Part No. Search by Characteristics Cross Reference Catalog Tech Note Technical Support Tool FAQ

**C1608X8R1H153K080AA**



**TDK item description** ? C1608X8R1H153KT\*\*\*\*

**Applications**

Commercial Grade  
Please refer to Part No. [CGA3E2X8R1H153K080AA](#) for Automotive use.

**Feature**

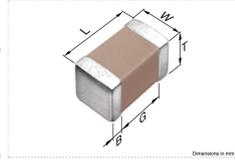
150°C High Temperature Application

**Series**

C1608 [EIA 0603]

**Status**

Production (Not Recommended for New Design)



Images are for reference only and show exemplary products.

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**Documents**

- Catalog
- Specification
- RoHS Certificate
- SVHC/REACH Certificate
- Characterization Sheet
- Promotion Video
- Sample Kits

**Technical Support Tools**

- S-parameter
- SPICE Netlist (Simple)
- SPICE Netlist (Precision)
- Equivalent Circuit Model
- DC Bias/Superimposition Model (HSPICE)

Size	
Length(L)	1.60mm ±0.10mm
Width(W)	0.80mm ±0.10mm
Thickness(T)	0.80mm ±0.10mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	0.30mm Min.
Recommended Land Pattern (PA)	0.70mm to 1.00mm(Flow Soldering) 0.60mm to 0.80mm(Reflow Soldering)
Recommended Land Pattern (PB)	0.80mm to 1.00mm(Flow Soldering) 0.60mm to 0.80mm(Reflow Soldering)
Recommended Land Pattern (PC)	0.60mm to 0.80mm(Flow Soldering) 0.60mm to 0.80mm(Reflow Soldering)

Electrical Characteristics	
Capacitance	15nF ±10%
Rated Voltage	50VDC
Temperature Characteristic ?	X8R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other	
Soldering Method	Flow Reflow
AEC-Q200	No
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	4000pcs

**Characteristic Graph (This is reference data, and does not guarantee the products characteristics.)**



Frequency/Hz

C1608X8R1H153K080AA

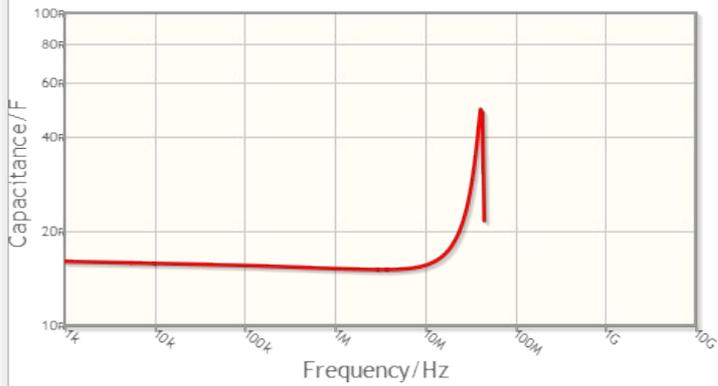
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Frequency/Hz

C1608X8R1H153K080AA

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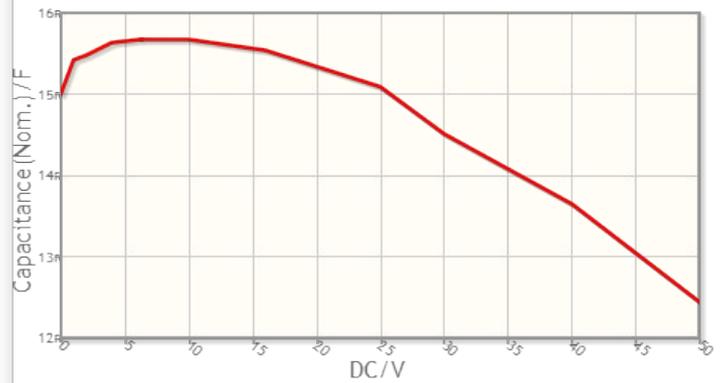
## Capacitance



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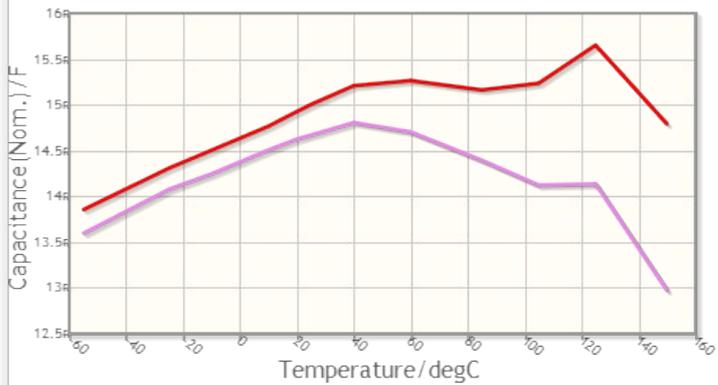
## DC Bias Characteristic



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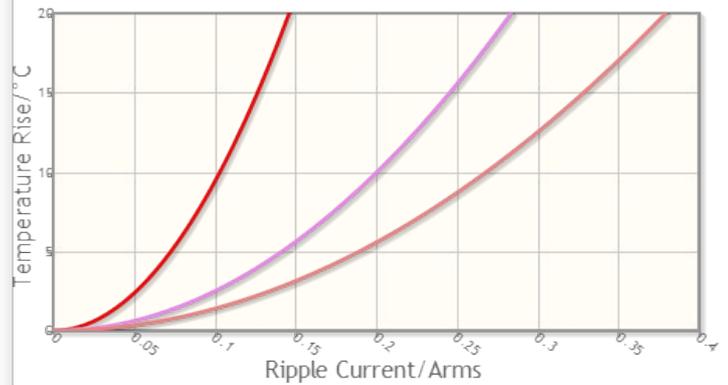
## Temperature Characteristic



C1608X8R1H153K080AA(No Bias) C1608X8R1H153K080AA(DC Bias = 25V)

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## Ripple Temperature Rising



C1608X8R1H153K080AA(100k Hz) C1608X8R1H153K080AA(500k Hz) C1608X8R1H153K080AA(1M Hz)

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- » Ferrites and Accessories
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- » Wireless Charging
- » FA Systems
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