

# Multilayer Ceramic Chip Capacitors

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

**C1608X8L1C684K080AC**



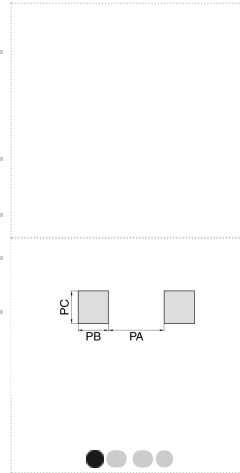
**TDK item description** ? C1608X8L1C684KT\*\*\*\*

**Applications** Commercial Grade  
Please refer to Part No. [CGA3E1X8L1C684K080AC](#) for Automotive use.

**Feature** 150°C High Temperature Application

**Series** C1608 [EIA 0603]

**Status** Production



Images are for reference only and show exemplary products.

PDF file of this page

Contact

- Documents**
- Catalog
  - Specification
  - RoHS Certificate
  - SVHC/REACH Certificate
  - Sample Kits
  - Characterization Sheet

## 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)

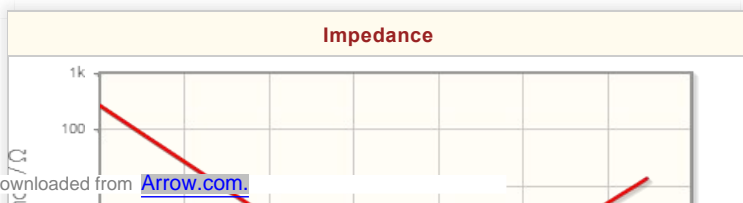
## Electrical Characteristics

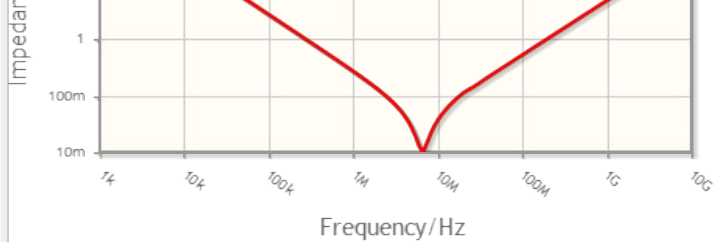
Capacitance	680nF ±10%
Rated Voltage	16VDC
Temperature Characteristic ?	X8L(+15,-40%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	147MΩ

## Other

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

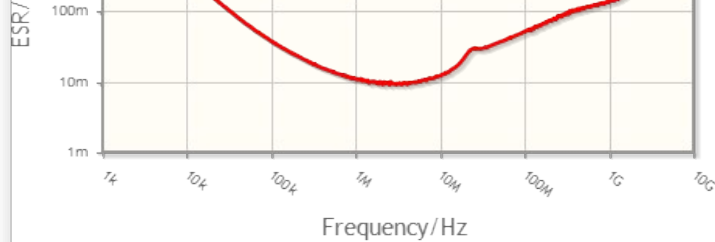
## Characteristic Graph (This is reference data, and does not guarantee the products characteristics.)





C1608X8L1C684K080AC

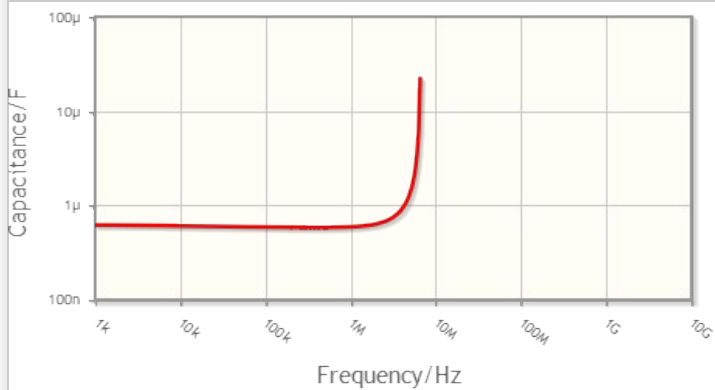
Change settings



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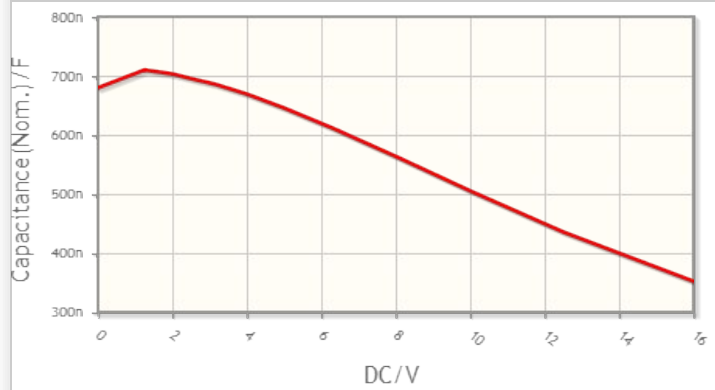
### Capacitance



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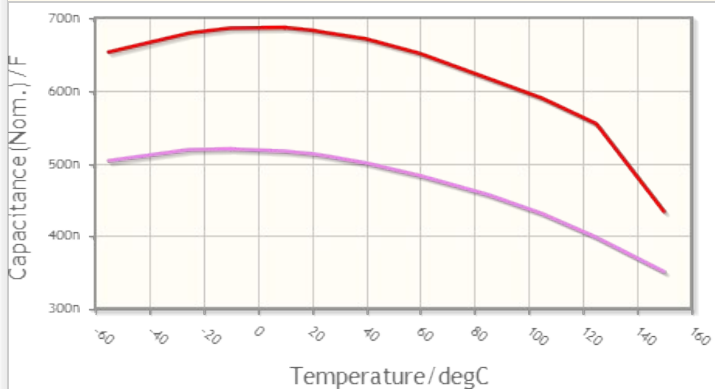
### DC Bias Characteristic



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### Temperature Characteristic



C1608X8L1C684K080AC(No Bias) C1608X8L1C684K080AC(DC Bias = 8V)

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### Ripple Temperature Rising



C1608X8L1C684K080AC(100k Hz) C1608X8L1C684K080AC(500k Hz) C1608X8L1C684K080AC(1MHz)

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- » Transformers
- » Ferrites and Accessories
- » Noise Suppressing / Magnetic Sheet
- » Anechoic Chambers and Radio Wave Absorbers
- » Power Supplies
- » Magnets
- » Flash Storages
- » Wireless Power Transfer
- » FA Systems
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- » Solar Cells
- » Biosensor

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