

# Multilayer Ceramic Chip Capacitors

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

**CGA9N2X7R2A225K230KA**

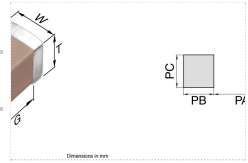
**TDK item description** ? CGA9N2X7R2A225KT\*\*\*\*

**Applications** Automotive Grade

**Feature**  
Mid Mid Voltage (100 to 630V)  
AEC-Q200 AEC-Q200

**Series** CGA9(5750) [EIA 2220]

**Status** Production (Not Recommended for New Design)



Images are for reference only and show exemplary products.

Size	
Length(L)	5.70mm ±0.40mm
Width(W)	5.00mm ±0.40mm
Thickness(T)	2.30mm ±0.20mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	
Recommended Land Pattern (PA)	4.10mm to 4.80mm
Recommended Land Pattern (PB)	1.20mm to 1.40mm
Recommended Land Pattern (PC)	4.00mm to 5.00mm

Electrical Characteristics	
Capacitance	2.2µF ±10%
Rated Voltage	100VDC
Temperature Characteristic ?	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	227MΩ

Other	
Soldering Method	Reflow
AEC-Q200	Yes
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	500pcs

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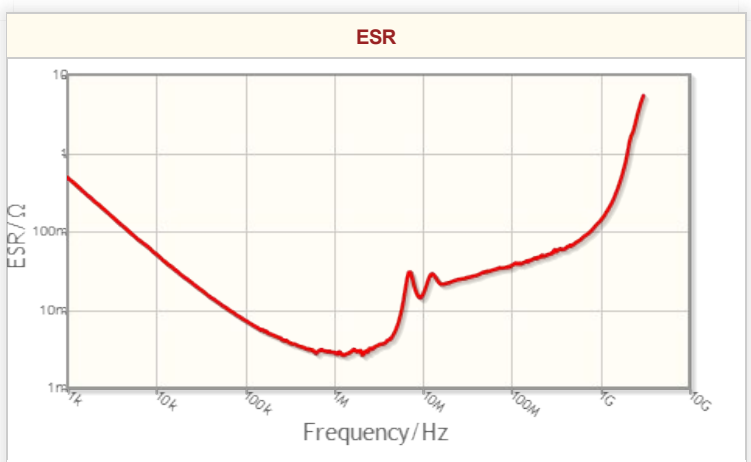
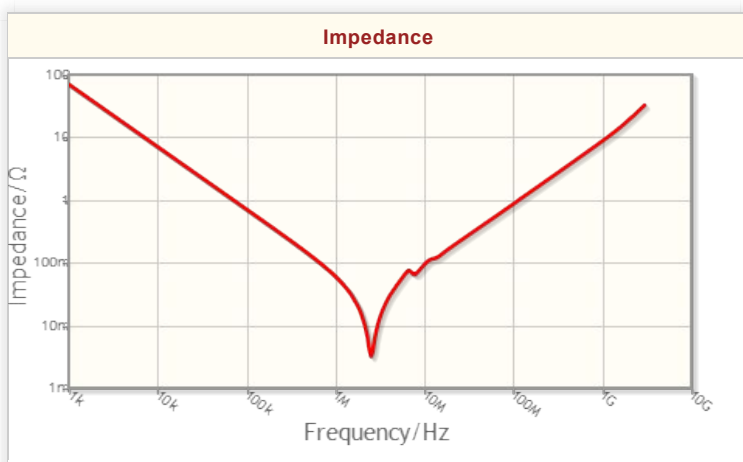
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- Documents**
- Catalog
  - Specification
  - RoHS Certificate
  - SVHC/REACH Certificate
  - Characterization Sheet
  - Promotion Video
  - Sample Kits

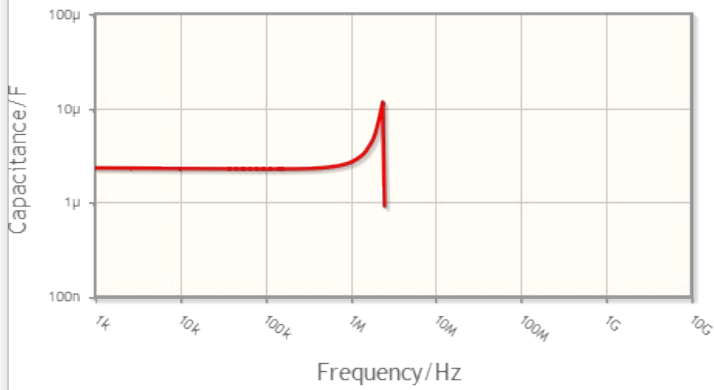
- Technical Support Tools**
- S-parameter
  - SPICE Netlist (Simple)
  - SPICE Netlist (Precision)
  - Equivalent Circuit Model
  - DC Bias/Superimposition Model (HSPICE)

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



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### Capacitance

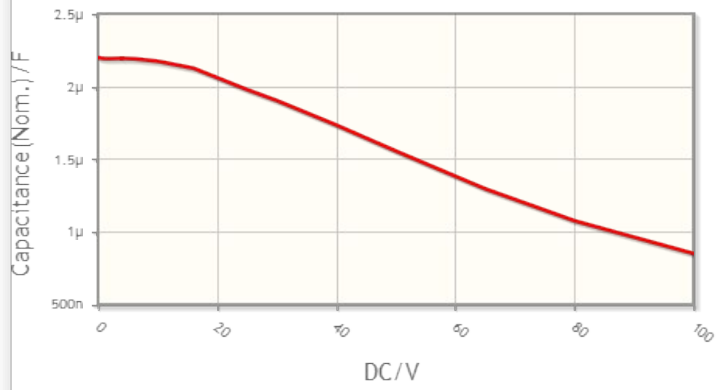


CGA9N2X7R2A225K230KA

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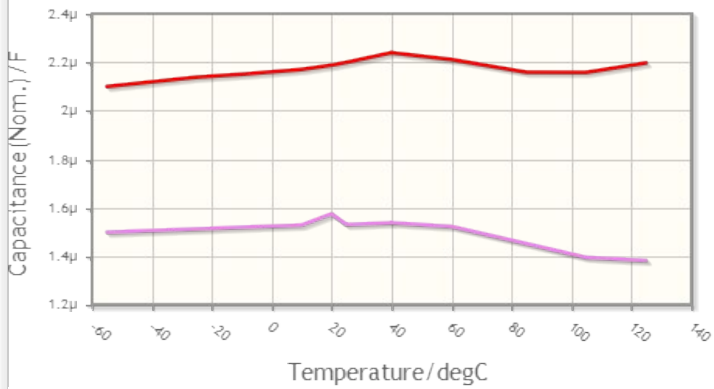
### DC Bias Characteristic



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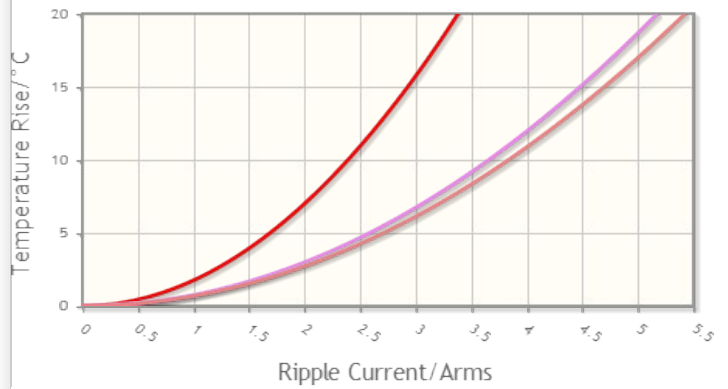
### Temperature Characteristic



CGA9N2X7R2A225K230KA( No Bias) CGA9N2X7R2A225K230KA(DC Bias s = 50V )

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### Ripple Temperature Rising



CGA9N2X7R2A225K230KA(10 0kHz) CGA9N2X7R2A225K230KA(50 0kHz) CGA9N2X7R2A225K230KA(1 MHz)

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- » Magnets
- » RF / SAW Components and Modules
- » Flash Storages
- » Voltage / Current / Temperature Protection Devices
- » Wireless Charging
- » Sensors and Sensor Systems
- » FA Systems
- » Ceramic Switching / Heating, Piezo Components and Buzzers
- » Transparent Conductive Film
- » Transformers
- » Micro Modules (Substrates with Built-in ICs, Products Utilizing with SESUB)
- » Ferrites and Accessories
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