

Multilayer Ceramic Chip Capacitors

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FAQ

CGA3E2X7R2A223K080AA



TDK item description ? CGA3E2X7R2A223KT****

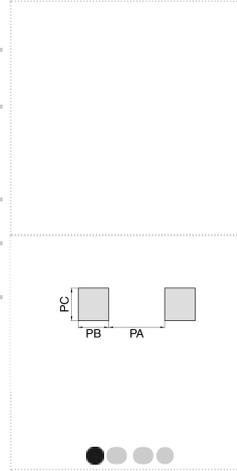
Applications Automotive Grade

Feature Mid Mid Voltage (100 to 630V)

AEC-Q200 AEC-Q200

Series CGA3(1608) [EIA 0603]

Status Production



Images are for reference only and show exemplary products.

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Documents

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

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	22nF ±10%
Rated Voltage	100VDC
Temperature Characteristic ?	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

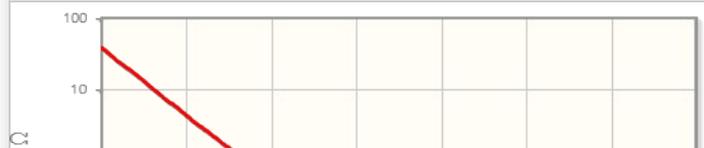
Other	
Soldering Method	Wave (Flow) Reflow
AEC-Q200	Yes
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	4000pcs

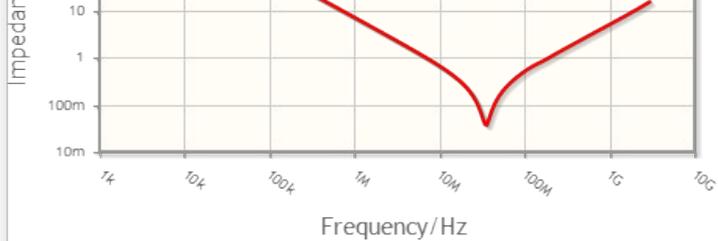
Characteristic Graph (This is reference data, and does not guarantee the products characteristics.)

Impedance



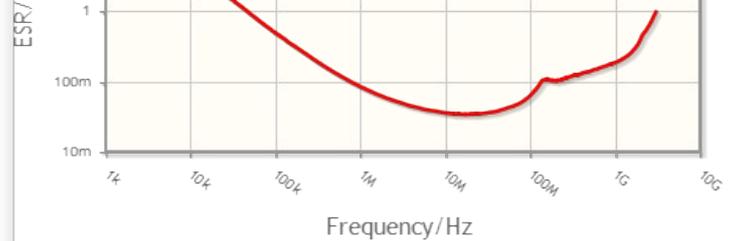
ESR





CGA3E2X7R2A223K080AA

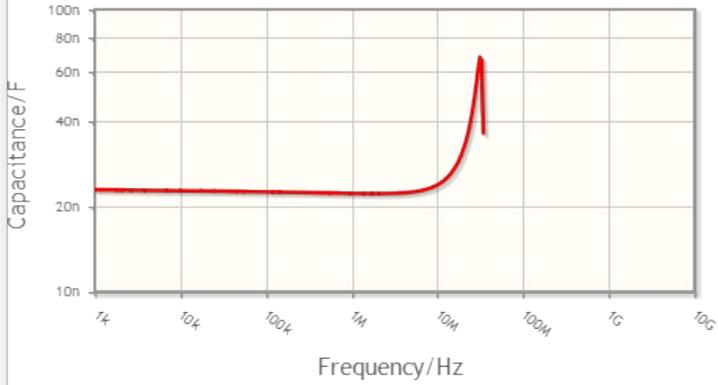
Change settings



CGA3E2X7R2A223K080AA

Change settings

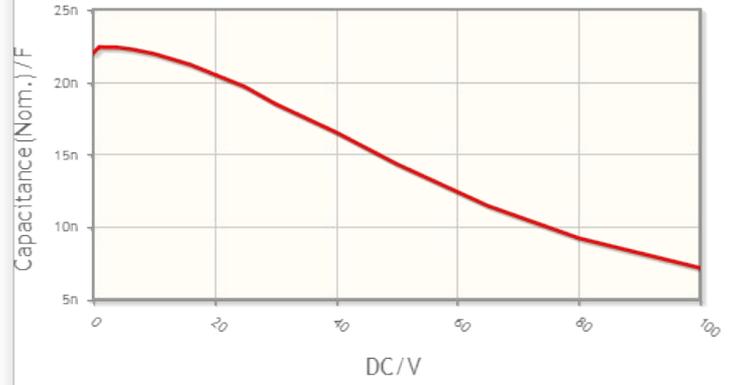
Capacitance



CGA3E2X7R2A223K080AA

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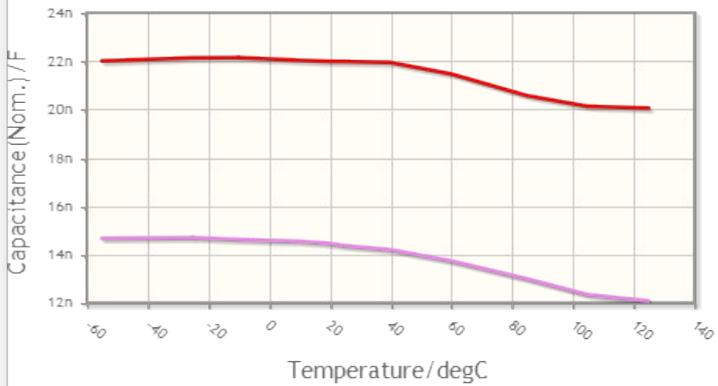
DC Bias Characteristic



CGA3E2X7R2A223K080AA

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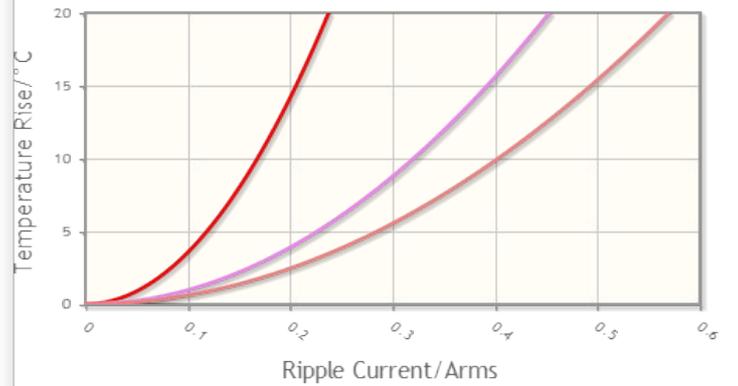
Temperature Characteristic



CGA3E2X7R2A223K080AA(No Bias) CGA3E2X7R2A223K080AA(DC Bias s = 50V)

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Ripple Temperature Rising



CGA3E2X7R2A223K080AA(10 kHz) CGA3E2X7R2A223K080AA(50 kHz) CGA3E2X7R2A223K080AA(1 MHz)

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- » Transformers
- » Ferrites and Accessories
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- » Anechoic Chambers and Radio Wave Absorbers
- » Power Supplies
- » Magnets
- » Flash Storages
- » Wireless Power Transfer
- » FA Systems
- » Transparent Conductive Film
- » Micro Modules (Substrates with Built-in ICs, Products Utilizing with SESUB)
- » Solar Cells
- » Biosensor

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