

Multilayer Ceramic Chip Capacitors

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Catalog

Tech Note

Technical Support Tool

FAQ

CGA3E2X7R2A153K080AA



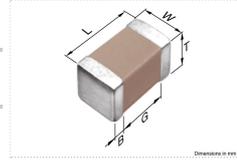
TDK item description ? CGA3E2X7R2A153KT****

Applications Automotive Grade

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

Series CGA3(1608) [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	100VDC
Temperature Characteristic ?	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other	
Soldering Method	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.)

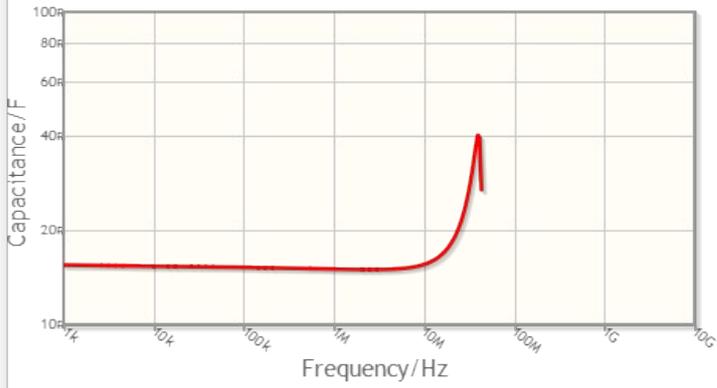


Frequency/Hz

CGA3E2X7R2A153K080AA

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Capacitance



CGA3E2X7R2A153K080AA

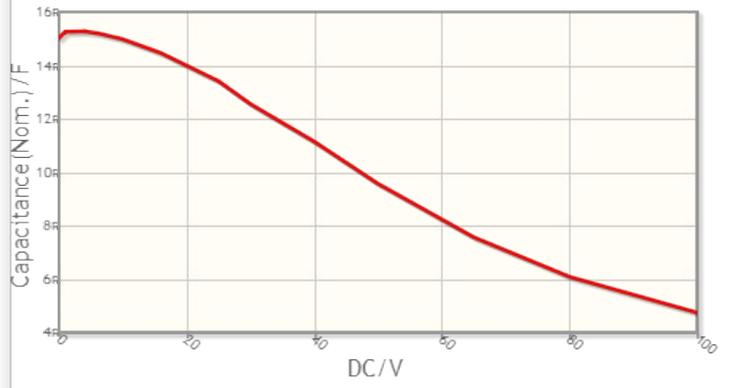
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Frequency/Hz

CGA3E2X7R2A153K080AA

Change settings

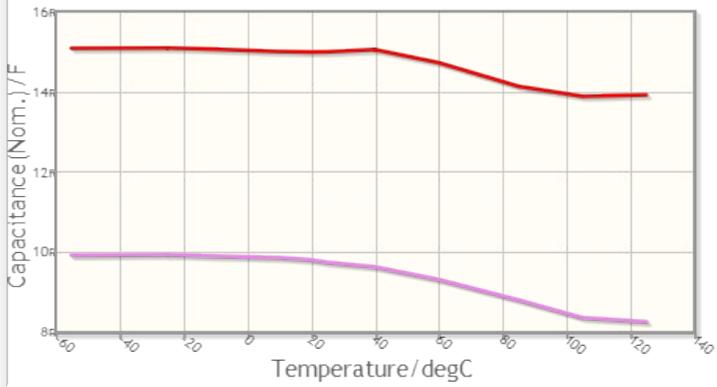
DC Bias Characteristic



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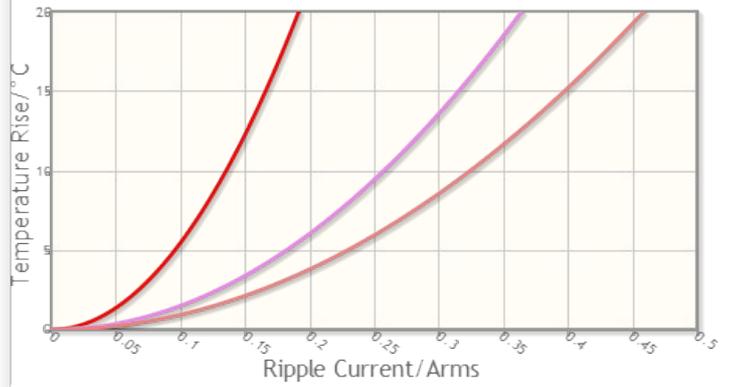
Temperature Characteristic



CGA3E2X7R2A153K080AA(No Bias) CGA3E2X7R2A153K080AA(DC Bias = 50V)

Change settings

Ripple Temperature Rising



CGA3E2X7R2A153K080AA(10 0kHz) CGA3E2X7R2A153K080AA(50 0kHz) CGA3E2X7R2A153K080AA(1 MHz)

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