

Multilayer Ceramic Chip Capacitors

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Tech Note

Technical Support Tool

FAQ

CGA3E2C0G2A271J080AA



TDK item description ? CGA3E2C0G2A271JT****

Applications



Automotive Grade

Feature

Mid

Mid Voltage (100 to 630V)

AEC-Q200

AEC-Q200

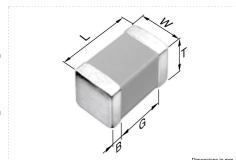
Series

CGA3(1608) [EIA 0603]

Status



Production (Not Recommended for New Design)



Images are for reference only and show exemplary products.

PDF file of this page



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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

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

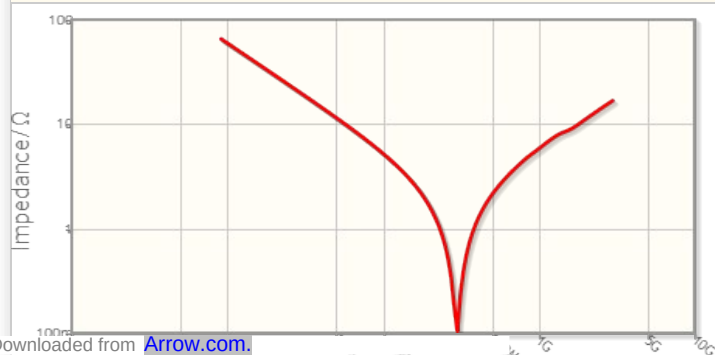
Capacitance	270pF ±5%
Rated Voltage	100VDC
Temperature Characteristic ?	C0G(0±30ppm/°C)
Q (Min.)	1000
Insulation Resistance (Min.)	10000MΩ

Other

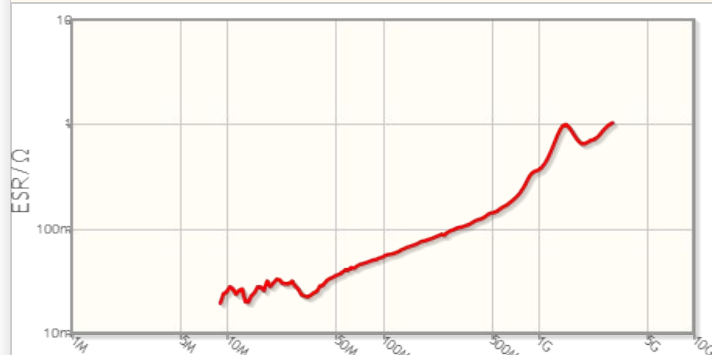
Soldering Method	Flow Reflow
AEC-Q200	Yes
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	4000pcs

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

Impedance



ESR

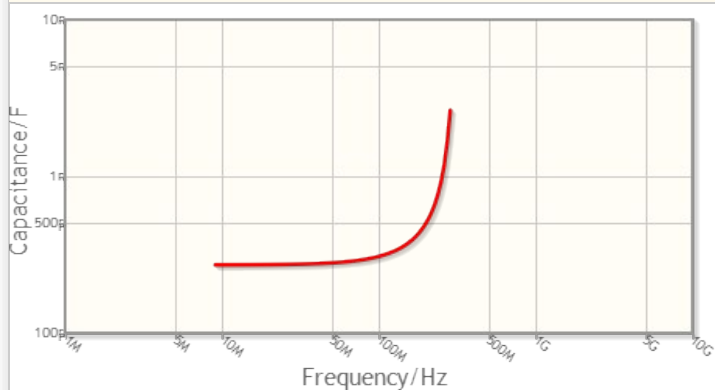


Frequency/Hz

CGA3E2C0G2A271J080AA

Change settings

Capacitance



CGA3E2C0G2A271J080AA

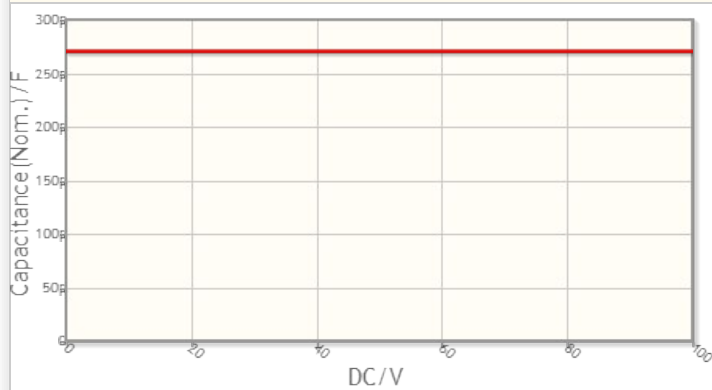
Change settings

Frequency/Hz

CGA3E2C0G2A271J080AA

Change settings

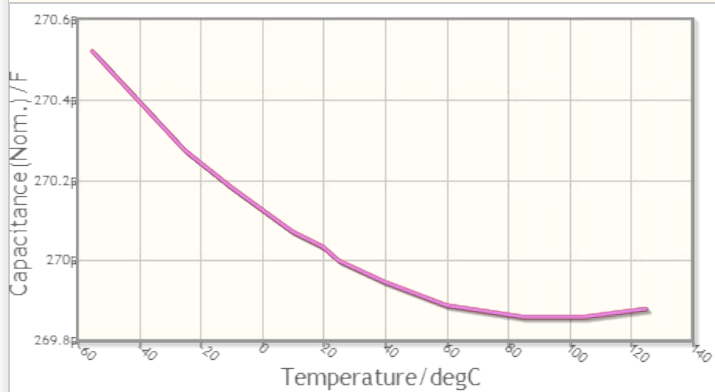
DC Bias Characteristic



CGA3E2C0G2A271J080AA

Change settings

Temperature Characteristic



CGA3E2C0G2A271J080AA(No Bias) CGA3E2C0G2A271J080AA(DC Bias = 50V)

Change settings

Ripple Temperature Rising

no data available

Change settings

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