

Multilayer Ceramic Chip Capacitors

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Tech Note

Technical Support Tool

FAQ

CGA4J2X8R1H683K125AA



TDK item description ? CGA4J2X8R1H683KT****

Applications



Automotive Grade

Feature

150°C

High Temperature Application

AEC-Q200

AEC-Q200

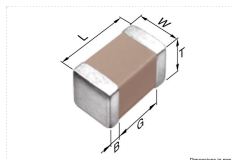
Series

CGA4(2012) [EIA 0805]

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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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)	2.00mm ±0.20mm
Width(W)	1.25mm ±0.20mm
Thickness(T)	1.25mm ±0.20mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	0.50mm Min.
Recommended Land Pattern (PA)	1.00mm to 1.30mm(Flow Soldering) 0.90mm to 1.20mm(Reflow Soldering)
Recommended Land Pattern (PB)	1.00mm to 1.20mm(Flow Soldering) 0.70mm to 0.90mm(Reflow Soldering)
Recommended Land Pattern (PC)	0.80mm to 1.10mm(Flow Soldering) 0.90mm to 1.20mm(Reflow Soldering)

Electrical Characteristics

Capacitance	68nF ±10%
Rated Voltage	50VDC
Temperature Characteristic ?	X8R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	7352MΩ

Other

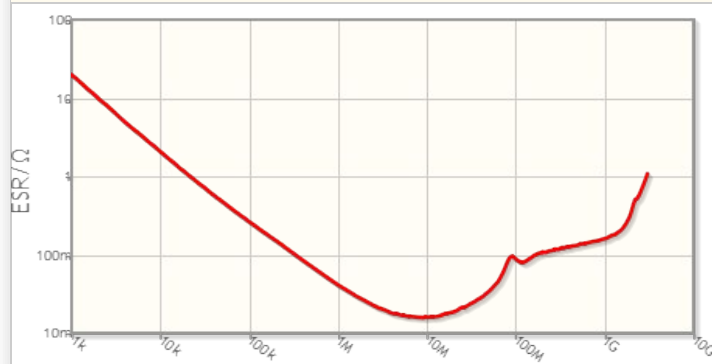
Soldering Method	Flow Reflow
AEC-Q200	Yes
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs

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

Impedance



ESR

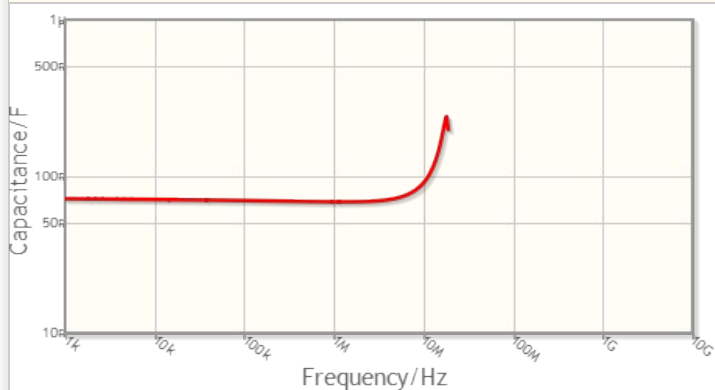


Frequency/Hz

CGA4J2X8R1H683K125AA

Change settings

Capacitance



CGA4J2X8R1H683K125AA

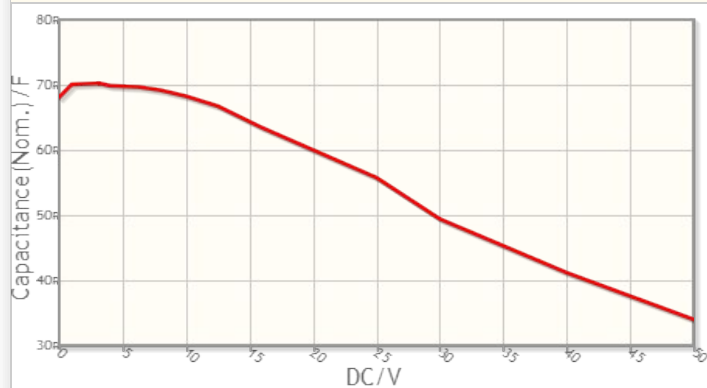
Change settings

Frequency/Hz

CGA4J2X8R1H683K125AA

Change settings

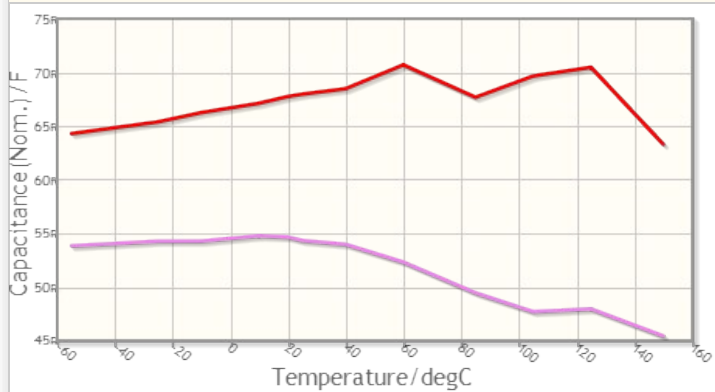
DC Bias Characteristic



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Change settings

Temperature Characteristic

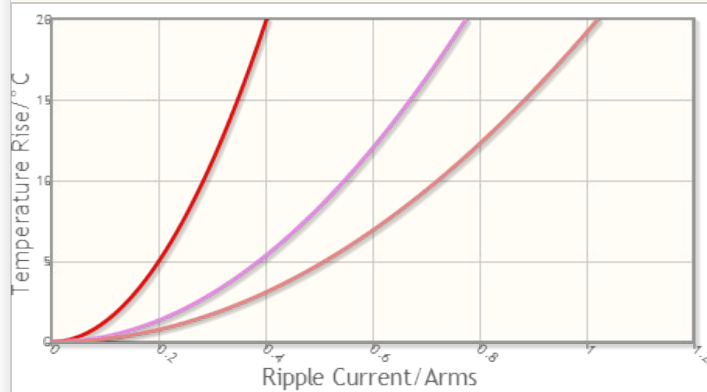


CGA4J2X8R1H683K125AA(No Bias)

CGA4J2X8R1H683K125AA(DC Bias s = 25V)

Change settings

Ripple Temperature Rising



CGA4J2X8R1H683K125AA(100 kHz)

CGA4J2X8R1H683K125AA(500 kHz)

CGA4J2X8R1H683K125AA(1 MHz)

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