

Multilayer Ceramic Chip Capacitors

Product Top Page

Search by Part No.

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Cross Reference

Catalog

Tech Notes

Technical Support Tools

FAQ

C1005X7R1E223K050BB



TDK item description ? C1005X7R1E223KT****

Applications



Commercial Grade

Please refer to Part No. [CGA2B2X7R1E223K050BA](#) for Automotive use.

Feature

General

General (Up to 50V)

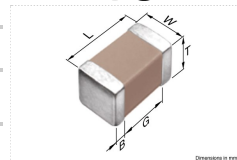
Series

C1005 [EIA 0402]

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

DC Bias/Superimposition Model (HSPICE)

Pages related to the series to which this product belongs

Description of icons | Environment

Size

Length(L)	1.00mm ±0.05mm
Width(W)	0.50mm ±0.05mm
Thickness(T)	0.50mm ±0.05mm
Terminal Width(B)	0.10mm Min.
Terminal Spacing(G)	0.30mm Min.
Recommended Land Pattern (PA)	0.30mm to 0.50mm
Recommended Land Pattern (PB)	0.35mm to 0.45mm
Recommended Land Pattern (PC)	0.40mm to 0.60mm

Electrical Characteristics

Capacitance	22nF ±10%
Rated Voltage	25VDC
Temperature Characteristic ?	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other

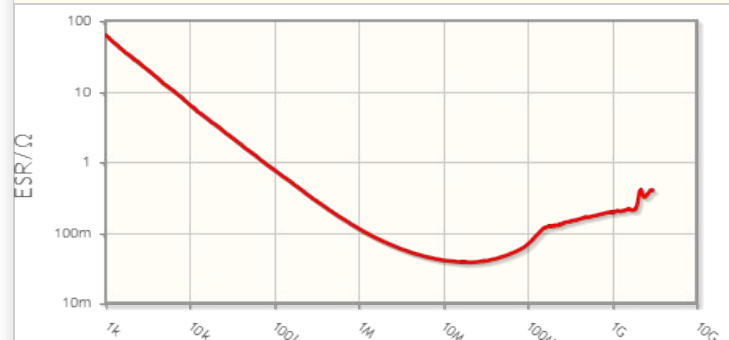
Soldering Method	Reflow
AEC-Q200	No
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	10000pcs

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

Impedance



ESR

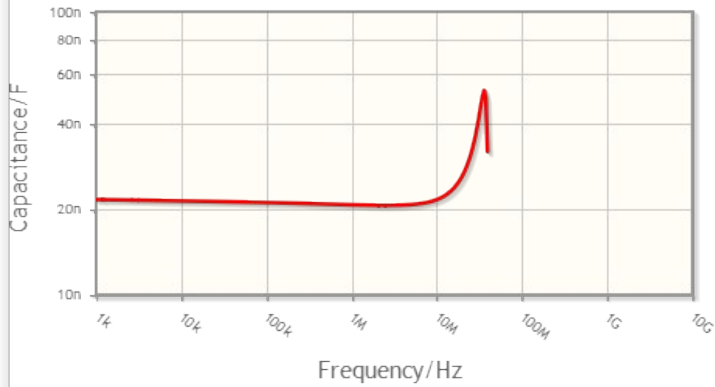


Frequency/Hz

C1005X7R1E223K050BB

Change settings

Capacitance



C1005X7R1E223K050BB

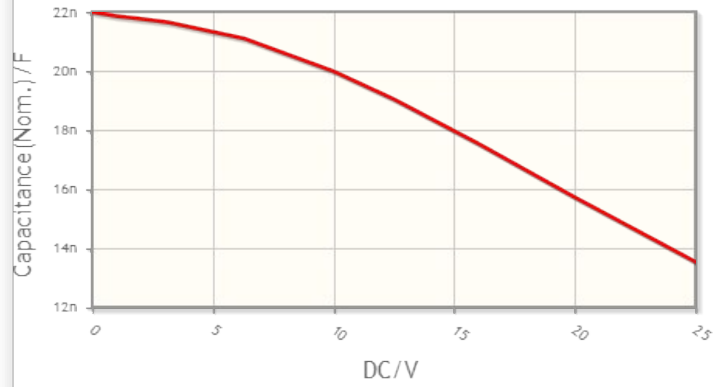
Change settings

Frequency/Hz

C1005X7R1E223K050BB

Change settings

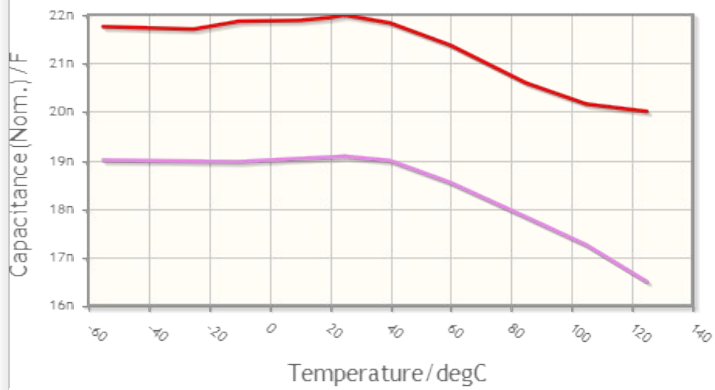
DC Bias Characteristic



C1005X7R1E223K050BB

Change settings

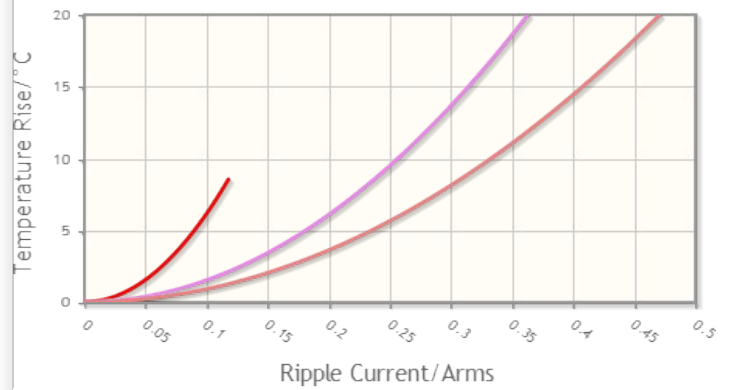
Temperature Characteristic



C1005X7R1E223K050BB(N) C1005X7R1E223K050BB(DC Bias = 12.5V)

Change settings

Ripple Temperature Rising



C1005X7R1E223K050BB(100k Hz) C1005X7R1E223K050BB(500k Hz) C1005X7R1E223K050BB(1M Hz)

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- » Ferrites and Accessories
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