

Multilayer Ceramic Chip Capacitors

Product Top Page

Search by Part No.

Search by Characteristics

Cross Reference

Catalog

Tech Note

Technical Support Tool

FAQ

CGJ2B2X7R1C153K050BA



TDK item description ? CGJ2B2X7R1C153KT****

Applications



High Reliability Grade

Feature

General

General (Up to 50V)

AEC-Q200

AEC-Q200

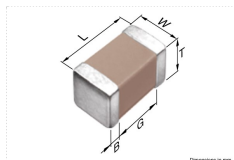
Series

CGJ2(1005) [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)

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

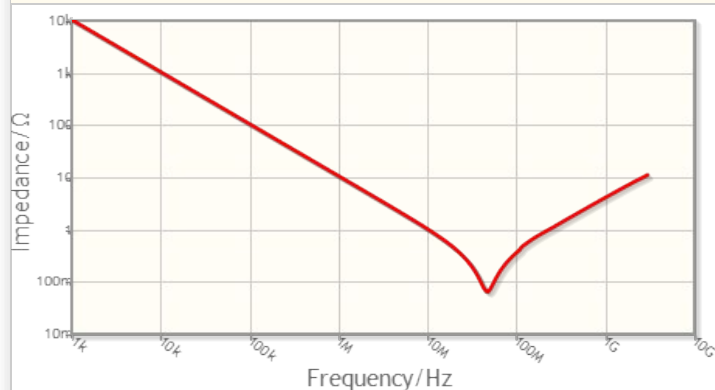
Capacitance	15nF ±10%
Rated Voltage	16VDC
Temperature Characteristic ?	X7R(±15%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	6666MΩ

Other

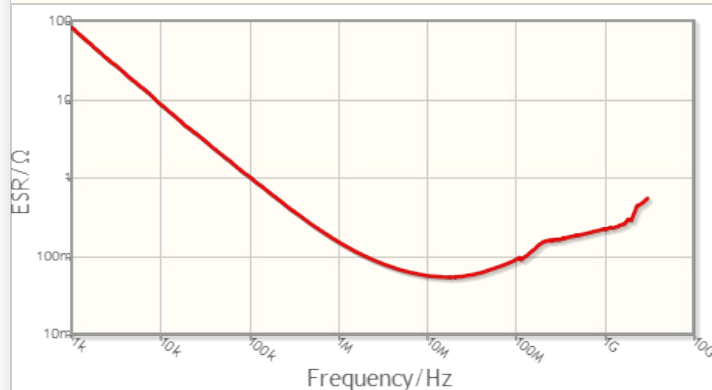
Soldering Method	Reflow
AEC-Q200	Yes
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	10000pcs

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

Impedance

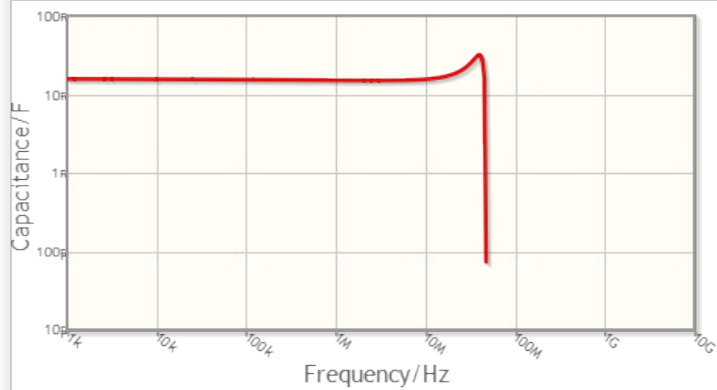


ESR



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Capacitance

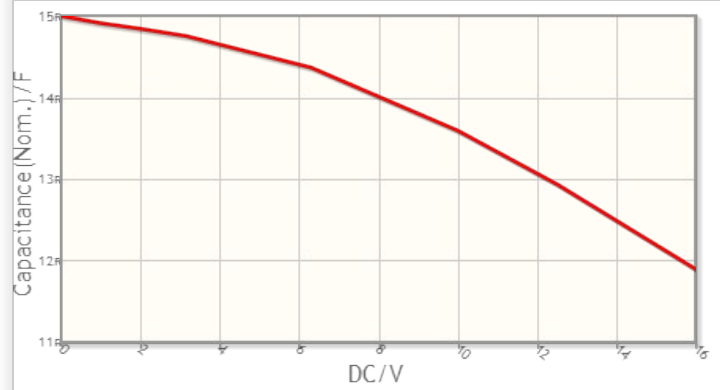


CGJ2B2X7R1C153K050BA

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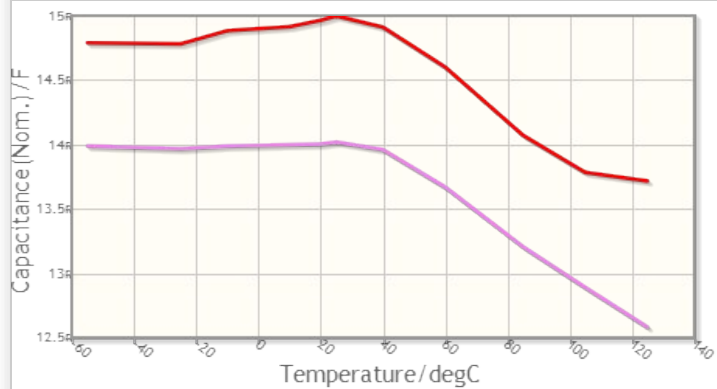
DC Bias Characteristic



CGJ2B2X7R1C153K050BA

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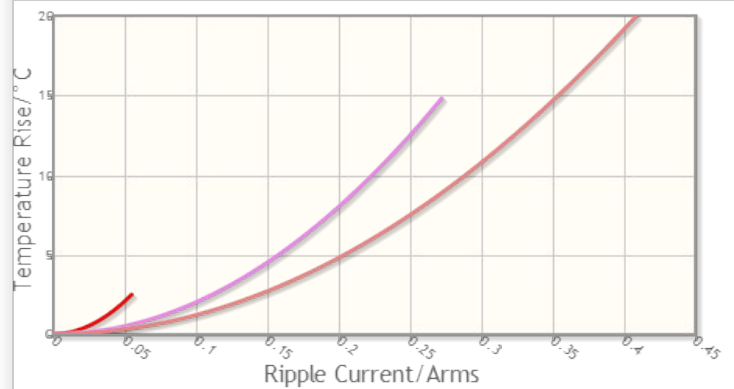
Temperature Characteristic



CGJ2B2X7R1C153K050BA(N o Bias) CGJ2B2X7R1C153K050BA(DC Bias s = 8V)

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Ripple Temperature Rising



CGJ2B2X7R1C153K050BA(100 kHz) CGJ2B2X7R1C153K050BA(500 kHz) CGJ2B2X7R1C153K050BA(1 MHz)

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- » Sensors and Sensor Systems
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- » Transformers
- » Ferrites and Accessories
- » Noise Suppressing / Magnetic Sheet
- » Anechoic Chambers and Radio Wave Absorbers
- » Power Supplies
- » Magnets
- » Flash Storages
- » Wireless Charging
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