

Multilayer Ceramic Chip Capacitors

Product Top Page

Search by Part No.

Search by Characteristics

Cross Reference

Catalog

Tech Notes

Technical Support Tools

FAQ

C1005X8R2A102K050BA



TDK item description ? C1005X8R2A102KT****

Applications



Commercial Grade

Please refer to Part No. [CGA2B2X8R2A102K050BA](#) for Automotive use.

Feature



Mid Voltage (100 to 630V)



High Temperature Application

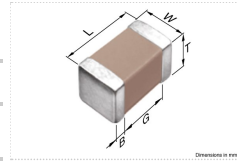
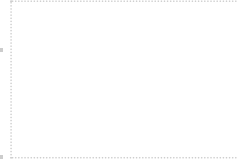
Series

C1005 [EIA 0402]

Status



Production



Images are for reference only and show exemplary products.

PDF file of this page

Buy Now

Contact

Documents

- Catalog
- Specification
- RoHS Certificate
- SVHC/REACH Certificate
- Characterization Sheet
- Promotion Video
- Sample Kits

| 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 | 1nF ±10% |
| Rated Voltage | 100VDC |
| Temperature Characteristic ? | X8R(±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.)



Frequency/Hz

C1005X8R2A102K050BA

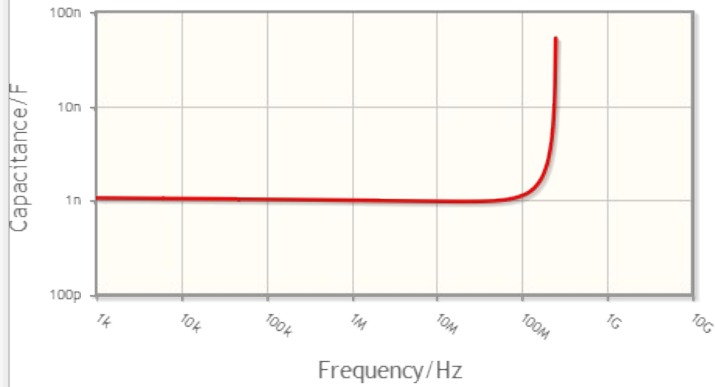
Change settings

Frequency/Hz

C1005X8R2A102K050BA

Change settings

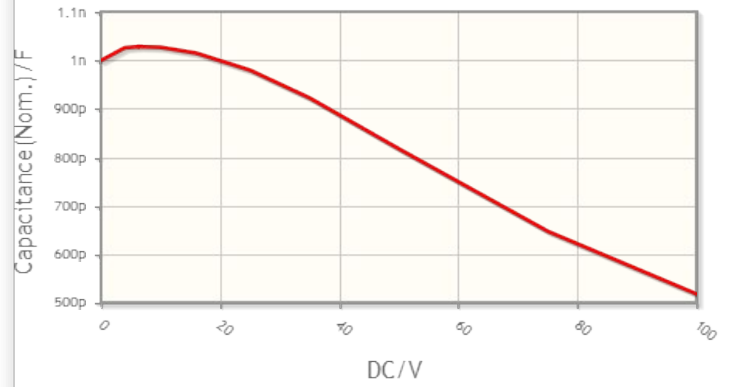
Capacitance



C1005X8R2A102K050BA

Change settings

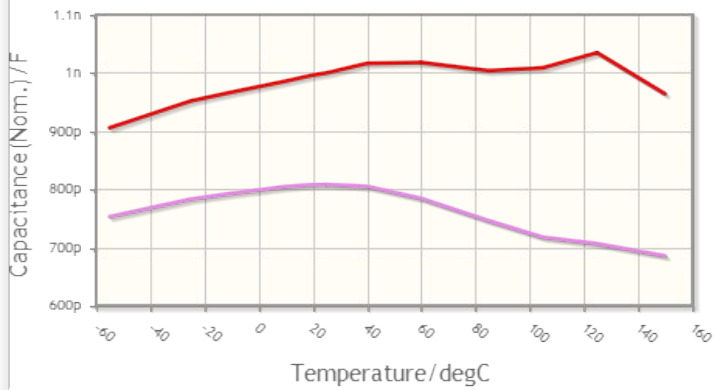
DC Bias Characteristic



C1005X8R2A102K050BA

Change settings

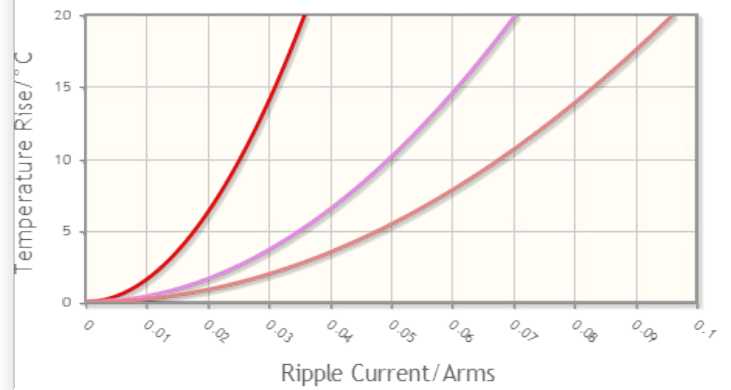
Temperature Characteristic



C1005X8R2A102K050BA(No Bias) C1005X8R2A102K050BA(DC Bias = 50V)

Change settings

Ripple Temperature Rising



C1005X8R2A102K050BA(100k Hz) C1005X8R2A102K050BA(500k Hz) C1005X8R2A102K050BA(1M Hz)

Change settings

Products

» Search by Part No. » Search by Characteristics » Distributor Inventory Check

- » Capacitors
- » Inductors (Coils)
- » EMC Components
- » RF Components and Modules
- » Voltage / Current / Temperature Protection Devices
- » Sensors and Sensor Systems
- » Ceramic Switching / Heating, Piezo Components, Buzzers and Microphones
- » Transformers
- » Ferrites and Accessories
- » Noise Suppressing / Magnetic Sheet
- » Anechoic Chambers and Radio Wave Absorbers
- » Power Supplies
- » Magnets
- » Flash Storages
- » Wireless Power Transfer
- » FA Systems
- » Transparent Conductive Film
- » Micro Modules (Substrates with Built-in ICs, Products Utilizing with SESUB)
- » Solar Cells
- » Biosensor

Application Guides

Technical Support

Tech Library

Environment

Contact

News

Home

- About TDK
- TDK Worldwide