

# Multilayer Ceramic Chip Capacitors

Product Top Page	Search by Part No.	Search by Characteristics	Cross Reference	Catalog	Tech Notes
------------------	--------------------	---------------------------	-----------------	---------	------------

## C2012X7R2A222K085AA



**TDK item description** ? C2012X7R2A222KT\*\*\*\*

**Applications**

**Commercial Grade**  
Please refer to Part No. [CGA4F2X7R2A222K085AA](#) for Automotive use.

**Feature**

Mid Mid Voltage (100 to 630V)

**Series**

C2012 [EIA 0805]

**Status**

Production (Not Recommended for New Design)

PDF file of this page

Contact



● ● ● ●  
Images are for reference only and show exemplary products.

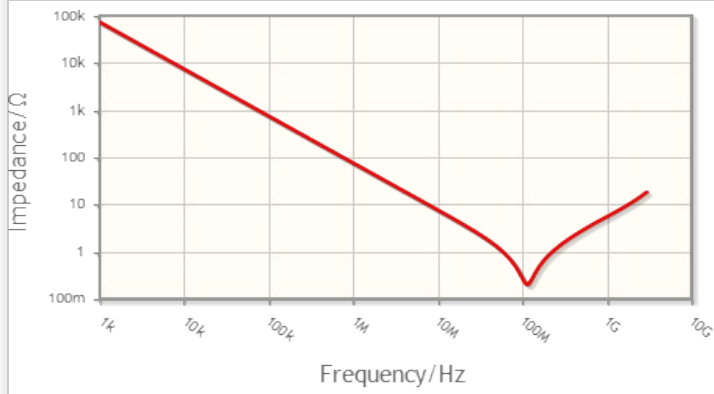
Size	
Length(L)	2.00mm ±0.20mm
Width(W)	1.25mm ±0.20mm
Thickness(T)	0.85mm ±0.15mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	0.50mm Min.
Recommended Land Pattern (PA)	1.00mm to 1.30mm(Flow Soldering) 0.90mm to 1.20mm(Reflow Soldering)
Recommended Land Pattern (PB)	1.00mm to 1.20mm(Flow Soldering) 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	2.2nF ±10%
Rated Voltage	100VDC
Temperature Characteristic <span>?</span>	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other	
Soldering Method	Wave (Flow) Reflow
AEC-Q200	No
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	4000pcs

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

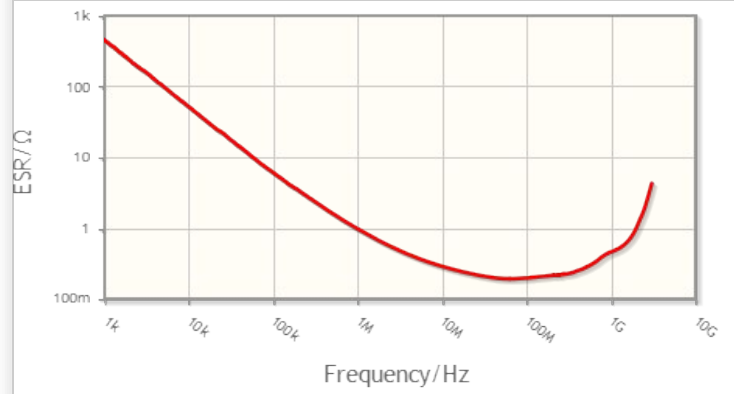
### Impedance



C2012X7R2A222K085AA

Change settings

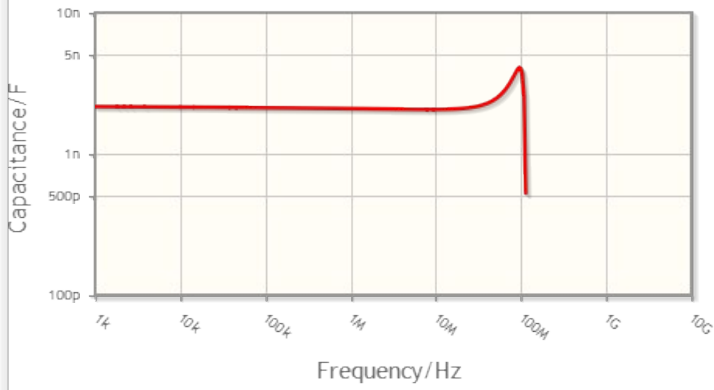
### ESR



C2012X7R2A222K085AA

Change settings

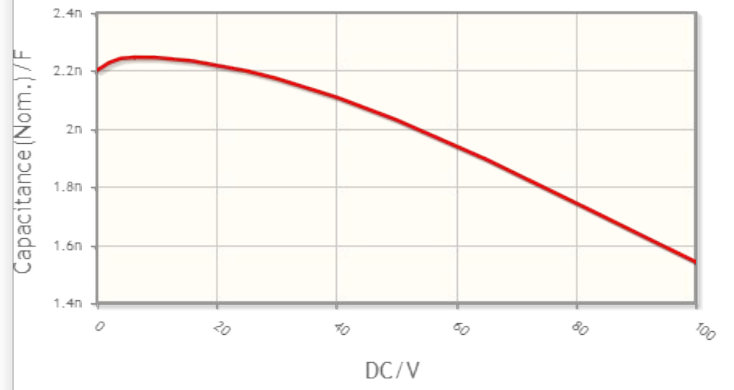
### Capacitance



C2012X7R2A222K085AA

Change settings

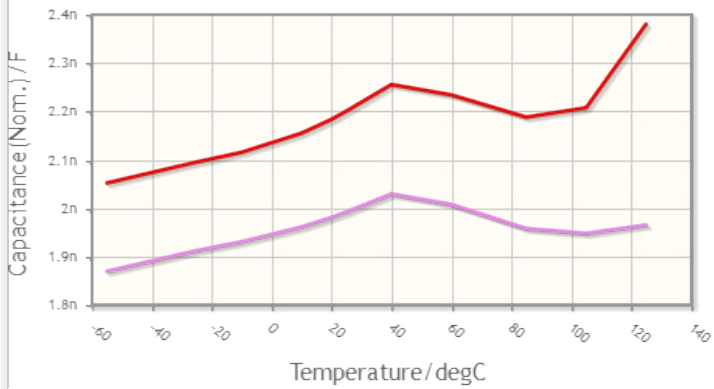
### DC Bias Characteristic



C2012X7R2A222K085AA

Change settings

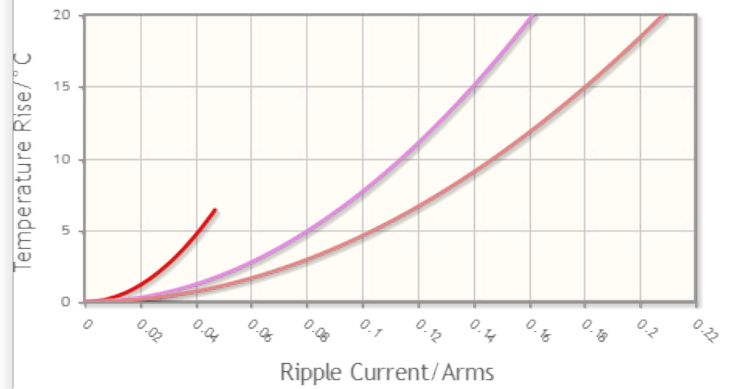
### Temperature Characteristic



C2012X7R2A222K085AA(No Bias) C2012X7R2A222K085AA(DC Bias = 50V)

Change settings

### Ripple Temperature Rising



C2012X7R2A222K085AA(100k Hz) C2012X7R2A222K085AA(500k Hz) C2012X7R2A222K085AA(1M Hz)

Change settings



- [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 Specific IC \(ASIC\) Development and Supply](#) >

#### **Application Guides**

#### **Technical Support**

#### **Tech Library**

#### **Environment**

#### **Contact**

#### **News**

#### **Home**

#### **About TDK**

#### **TDK Worldwide**

[Terms of Use](#)   [Privacy Policy](#)   [Cookie Policy](#)

Copyright(c) 2018 TDK Corporation. All rights reserved.  
TDK logo is a trademark or registered trademark of TDK Corporation.

