

# Multilayer Ceramic Chip Capacitors

Product Top Page Search by Part No. Search by Characteristics Cross Reference Catalog Tech Note Technical Support Tool FAQ

**C2012X7R2A472K085AA**

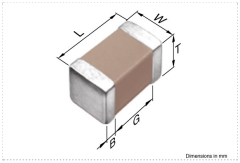
**TDK item description** ? C2012X7R2A472KT\*\*\*\*

**Applications** Commercial Grade  
Please refer to Part No. [CGA4F2X7R2A472K085AA](#) for Automotive use.

**Feature** Mid Mid Voltage (100 to 630V)

**Series** C2012 [EIA 0805]

**Status** Production (Not Recommended for New Design)



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	4.7nF ±10%
Rated Voltage	100VDC
Temperature Characteristic ?	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

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

PDF file of this page

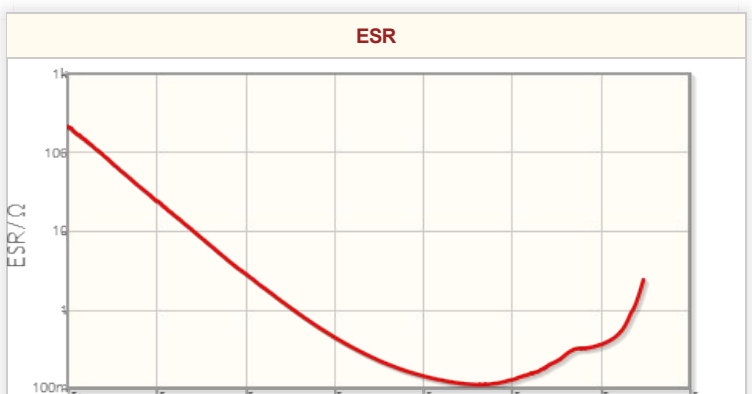
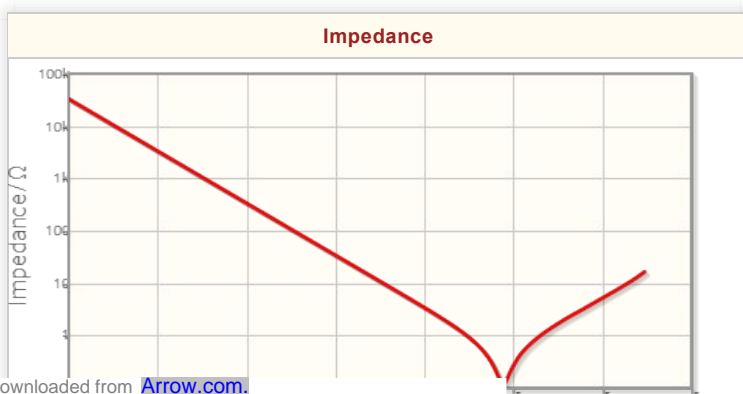
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- Technical Support Tools**
- S-parameter
  - SPICE Netlist (Simple)
  - SPICE Netlist (Precision)
  - Equivalent Circuit Model
  - DC Bias/Superimposition Model (HSPICE)

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



Frequency/Hz

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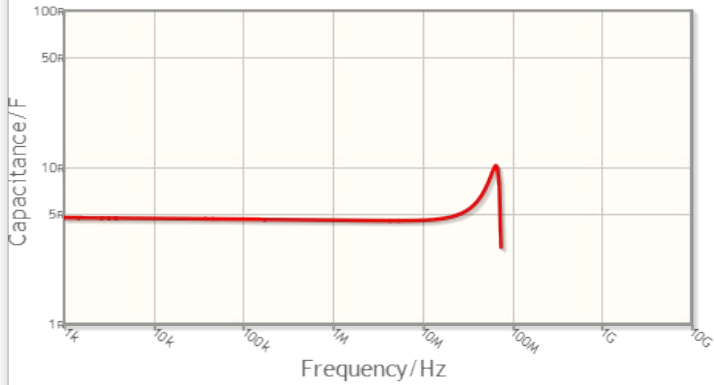
Change settings

Frequency/Hz

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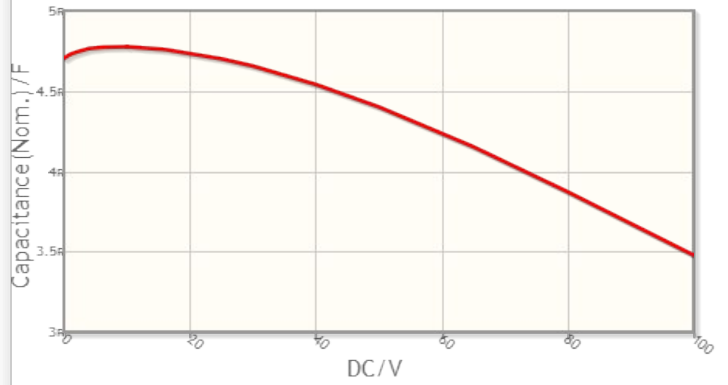
Capacitance



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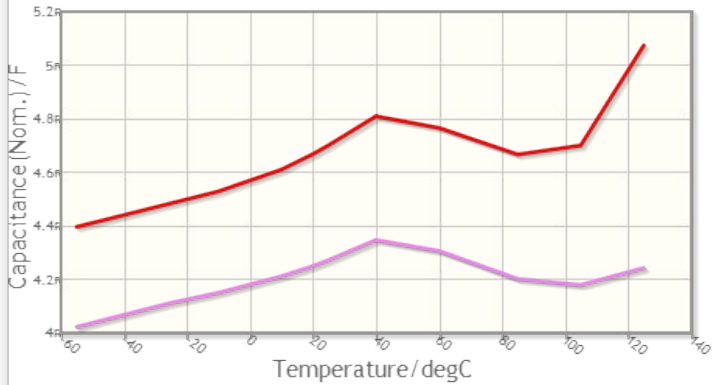
DC Bias Characteristic



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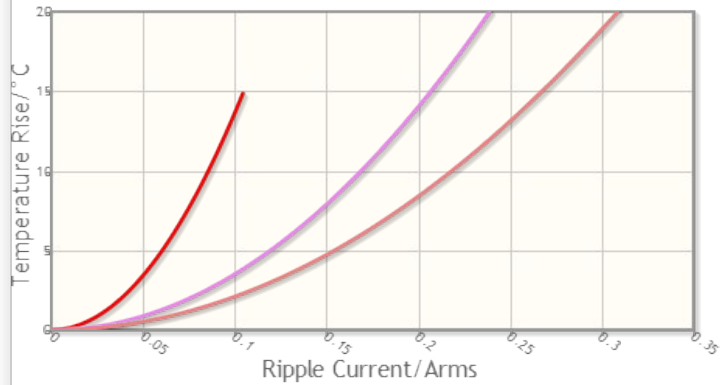
Temperature Characteristic



C2012X7R2A472K085AA(No Bias) C2012X7R2A472K085AA(DC Bias = 50V )

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Ripple Temperature Rising



C2012X7R2A472K085AA(100k Hz) C2012X7R2A472K085AA(500k Hz) C2012X7R2A472K085AA(1M Hz)

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