

Multilayer Ceramic Chip Capacitors

Product Top Page	Search by Part No.	Search by Characteristics	Cross Reference	Catalog	Tech Notes
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C2012X7R2A102K085AA

TDK item description	C2012X7R2A102KT****
Applications	Commercial Grade Please refer to Part No. CGA4F2X7R2A102K085AA 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	1nF ±10%
Rated Voltage	100VDC
Temperature Characteristic	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.)

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RoHS

REACH SVHC-Free

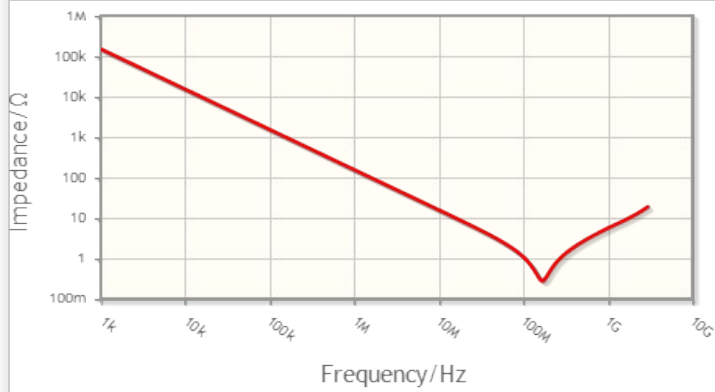
Halogen Free

Lead Free

PDF file of this page

Contact

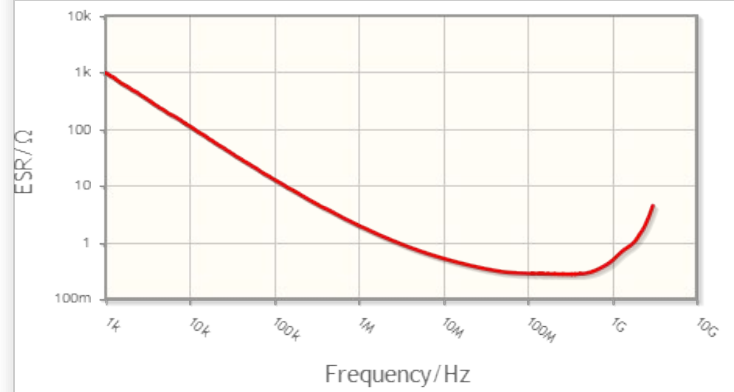
Impedance



C2012X7R2A102K085AA

Change settings

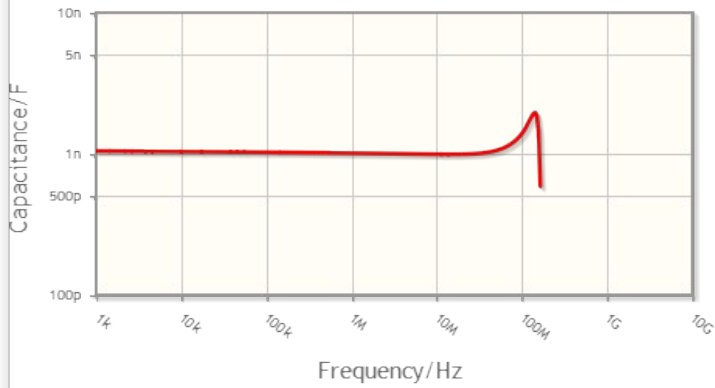
ESR



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Change settings

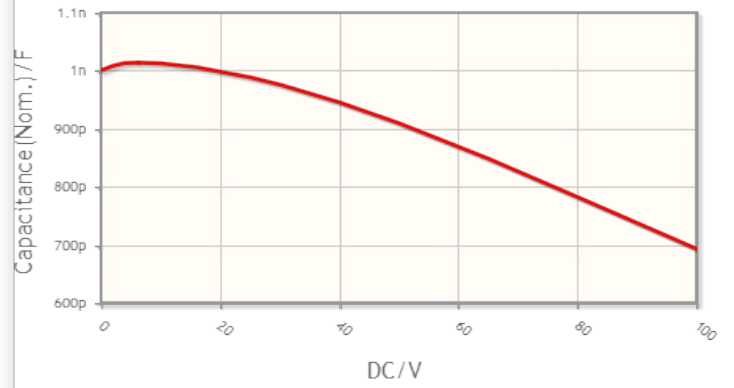
Capacitance



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Change settings

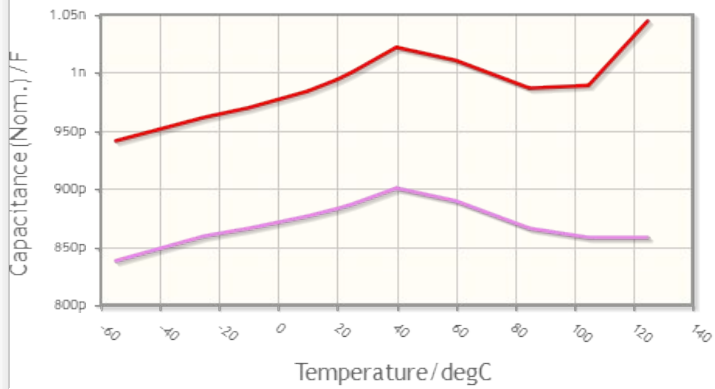
DC Bias Characteristic



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Change settings

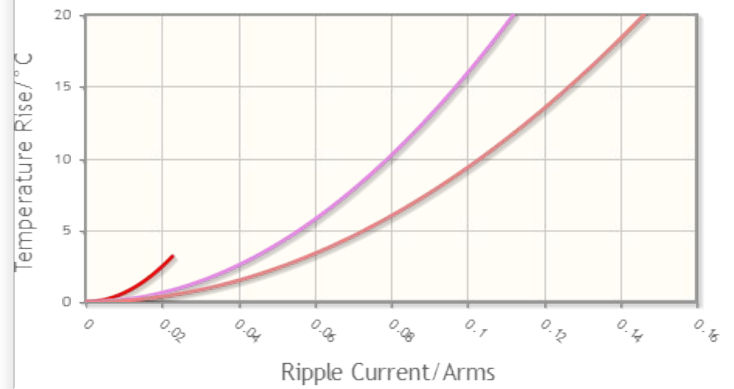
Temperature Characteristic



C2012X7R2A102K085AA(No Bias)
C2012X7R2A102K085AA(DC Bias = 50V)

Change settings

Ripple Temperature Rising



C2012X7R2A102K085AA(100k Hz)
C2012X7R2A102K085AA(500k Hz)
C2012X7R2A102K085AA(1M Hz)

Change settings



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Ferrites and Accessories	>
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