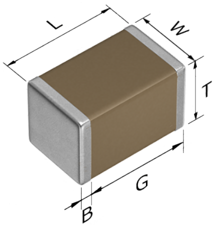
TDK

Multilayer Ceramic Chip Capacitors

C2012X7R2A473K125AA

Product Status	Production
TDK Item Description	C2012X7R2A473KT****
Applications	Commercial Grade Please refer to Part No. CGA4J2X7R2A473K125AA for Automotive use.
Feature	MidMid Voltage (100 to 630V)
Series	C2012 [EIA 0805]
Status	Production
Brand	TDK
Environmental Compliance	RoHS REACH Halogen Free Lead Free



Size	
Length(L)	2.00mm ±0.20mm
Width(W)	1.25mm ±0.20mm
Thickness(T)	1.25mm ±0.20mm
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)

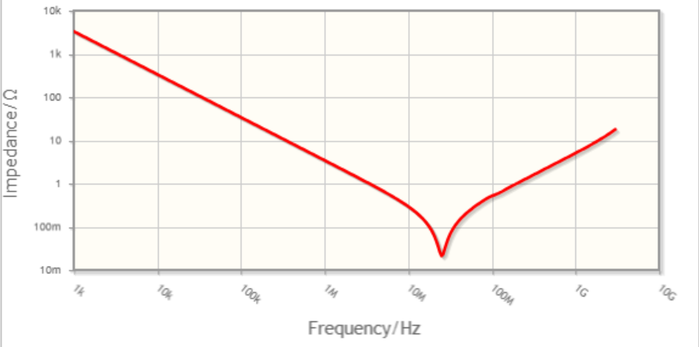
Electrical Characteristics	
Capacitance	47nF ±10%
Rated Voltage	100VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Wave (Flow) Reflow
AEC-Q200	NO
Packing	Embossed (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs

! Images are for reference only and show exemplary products.
! This PDF document was created based on the data listed on the TDK Corporation website.
! All specifications are subject to change without notice.

FIT (Failure In Time)	🔒 This will be displayed when you login to myTDK

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



Impedance

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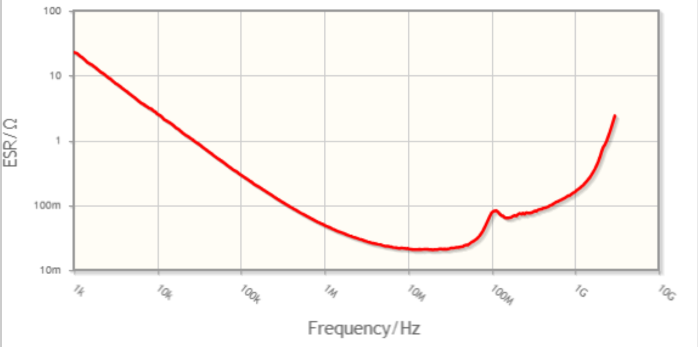
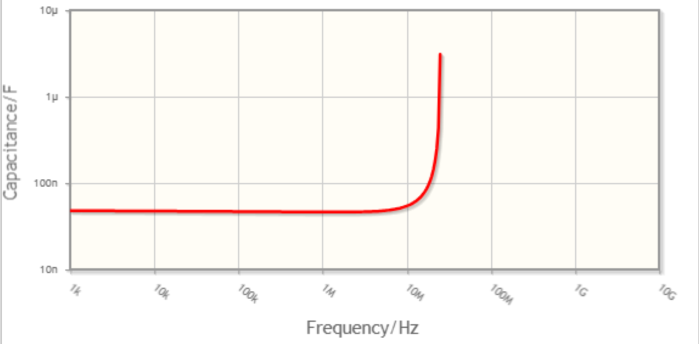


ESR

C2012X7R2A473K125AA



Capacitance

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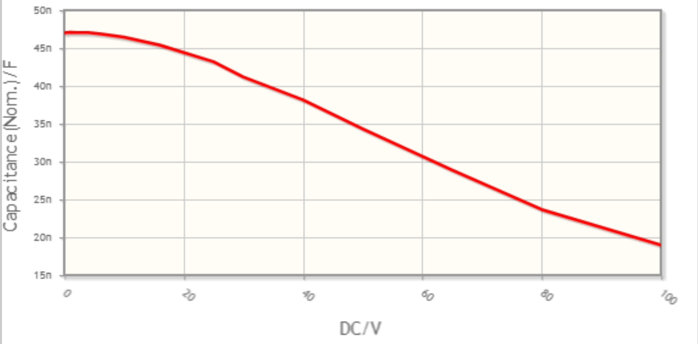
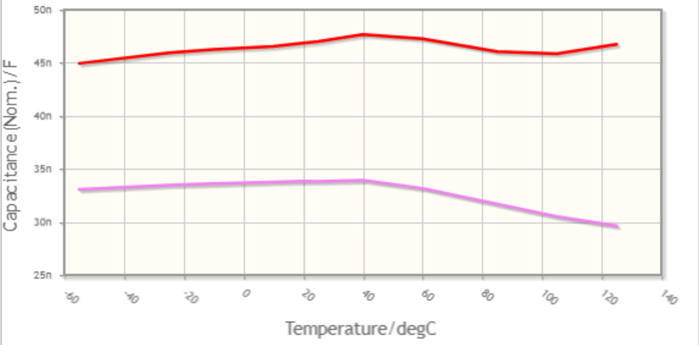


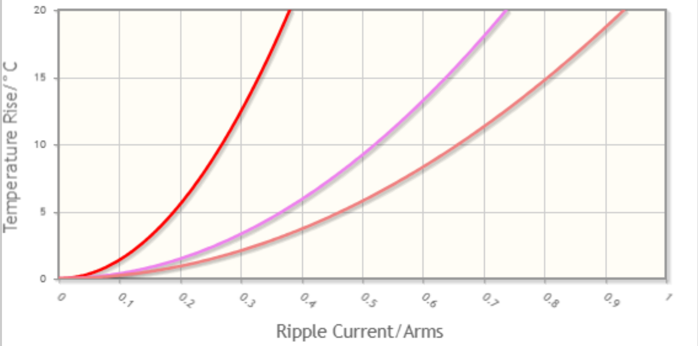
DC Bias Characteristic

C2012X7R2A473K125AA



Temperature Characteristic

C2012X7R2A473K125AA(No Bias) C2012X7R2A473K125AA(DC Bias = 50V)



Ripple Temperature Rising

C2012X7R2A473K125AA(100kHz) C2012X7R2A473K125AA(500kHz) C2012X7R2A473K125AA(1MHz)

Associated Images

Land Pattern (Terminal Connection)