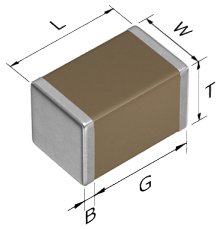
Creation Date : August 12, 2024 (GMT)

Multilayer Ceramic Chip Capacitors

C2012X7R1H225K125AC

RoHS REACH Halogen Free Lead Free

TDK item description	C2012X7R1H225KT****
Applications	Commercial Grade Please refer to Part No. CGA4J3X7R1H225K125AB for Automotive use.
Feature	General (Up to 75V)
Series	C2012 [EIA 0805]
Status	Production
Brand	TDK



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	2.2µF ±10%
Rated Voltage	50VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	227MΩ

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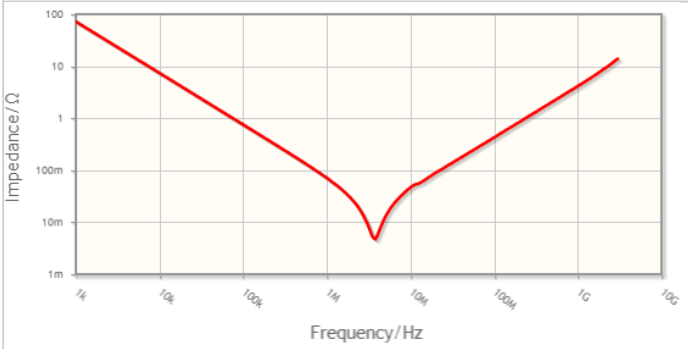
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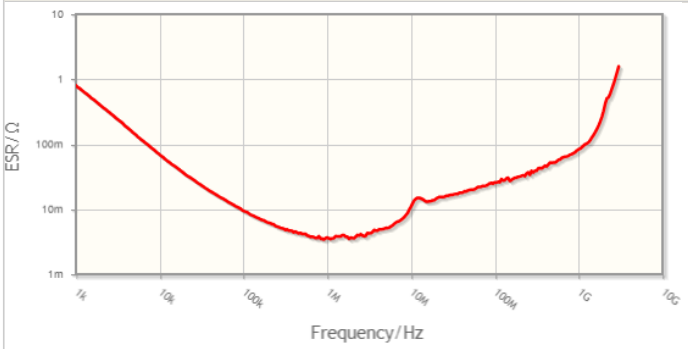
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



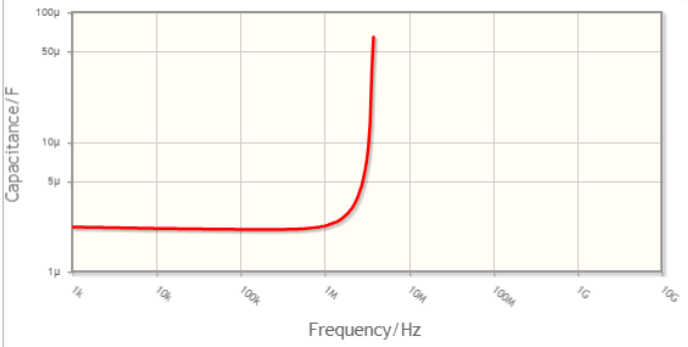
C2012X7R1H225K125AC

ESR



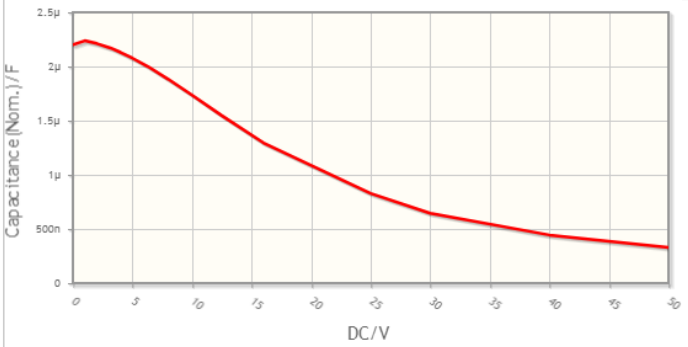
C2012X7R1H225K125AC

Capacitance



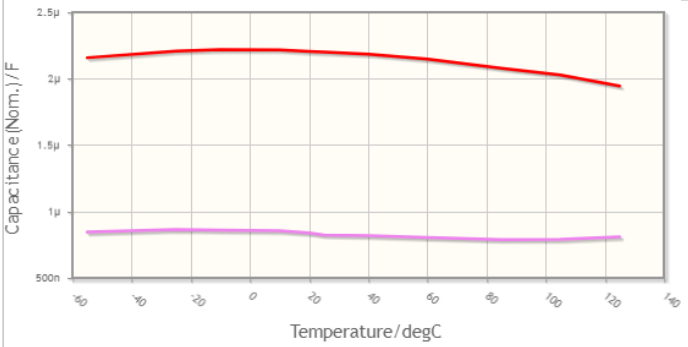
C2012X7R1H225K125AC

DC Bias Characteristic



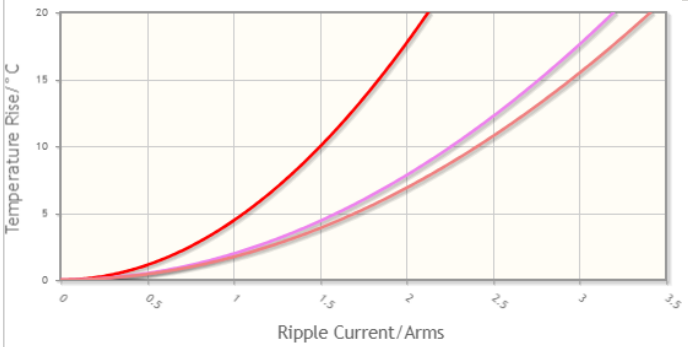
C2012X7R1H225K125AC

Temperature Characteristic



C2012X7R1H225K125AC(No Bias) C2012X7R1H225K125AC(DC Bias = 25V)

Ripple Temperature Rising



C2012X7R1H225K125AC(100kHz) C2012X7R1H225K125AC(500kHz) C2012X7R1H225K125AC(1MHz)

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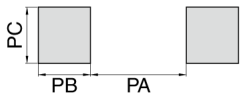
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Associated Images

Land Pattern (Terminal Connection)



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