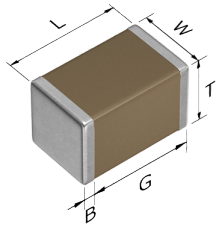
Creation Date : December 31, 2021 (GMT)

Multilayer Ceramic Chip Capacitors

CGA4J3X7R1C225K125AB

RoHS Reach Halogen Free Pb Free

TDK item description	CGA4J3X7R1C225KT****
Applications	Automotive Grade
Feature	AEC-Q200 AEC-Q200 General General (Up to 50V)
Series	CGA4(2012) [EIA 0805]
Status	Production



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	16VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	7.5%
Insulation Resistance (Min.)	45MΩ

Other	
Soldering Method	Wave (Flow) Reflow
AEC-Q200	YES
Packing	Embossed (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs

! Images are for reference only and show exemplary products.
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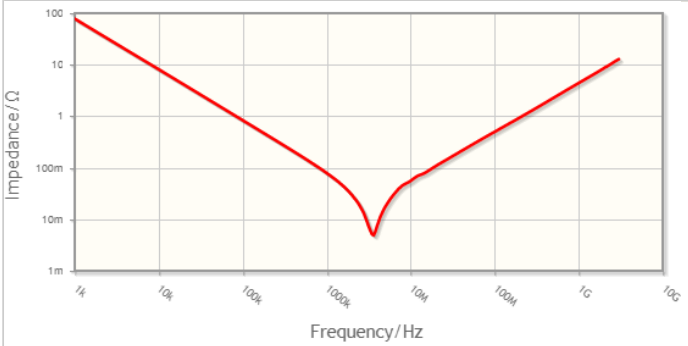
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



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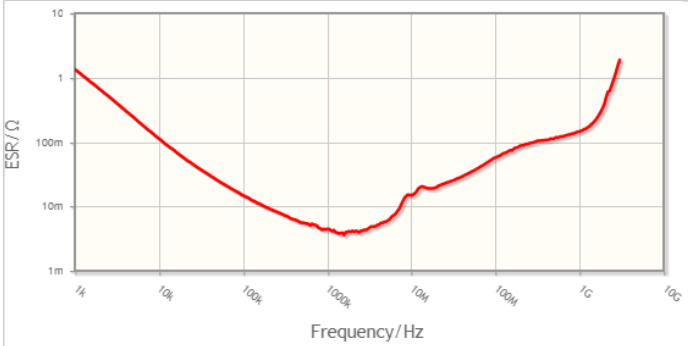
ESR



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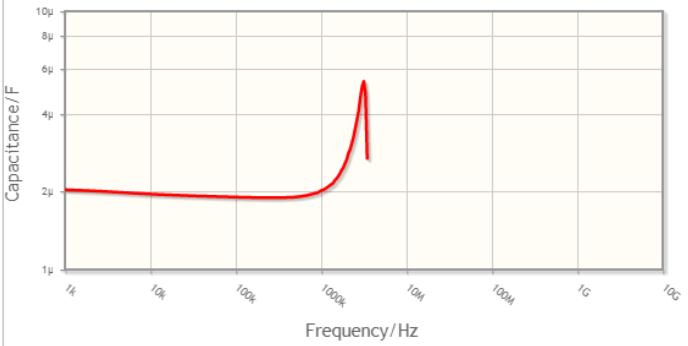
Capacitance



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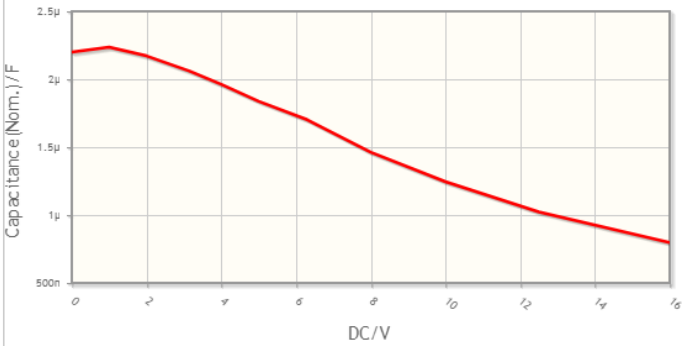
DC Bias Characteristic



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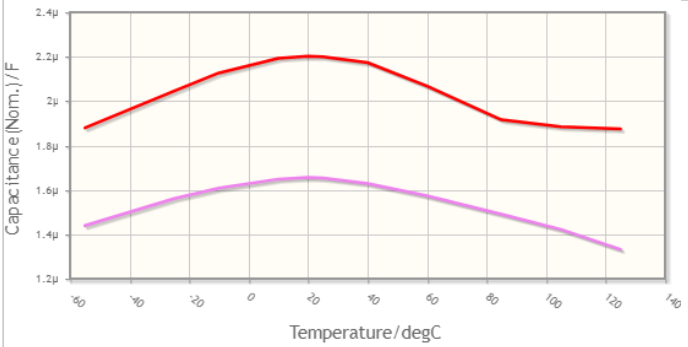
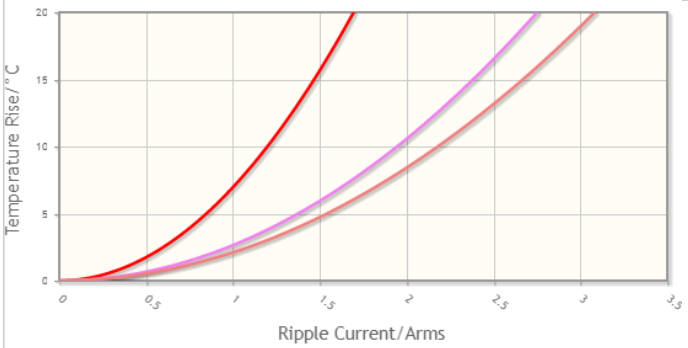
Temperature Characteristic



CGA4J3X7R1C225K125AB(No Bias) CGA4J3X7R1C225K125AB(DC Bias = 8V)

Ripple Temperature Rising



CGA4J3X7R1C225K125AB(100kHz) CGA4J3X7R1C225K125AB(500kHz) CGA4J3X7R1C225K125AB(1MHz)

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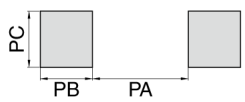
Associated Images

Land Pattern (Terminal Connection)



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