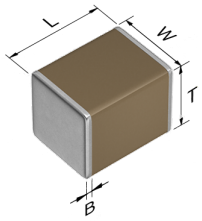
Multilayer Ceramic Chip Capacitors

CGA6M3X7R2E224K200AA

Product Status	Production
TDK Item Description	CGA6M3X7R2E224KT****
Applications	Automotive Grade
Feature	AEC-Q200AEC-Q200 MidMid Voltage (100 to 630V)
Series	CGA6(3225) [EIA 1210]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	3.20mm ±0.40mm
Width(W)	2.50mm ±0.30mm
Thickness(T)	2.00mm ±0.20mm
Terminal Width(B)	0.20mm Min.
Recommended Land Pattern (PA)	2.00mm to 2.40mm
Recommended Land Pattern (PB)	1.00mm to 1.20mm
Recommended Land Pattern (PC)	1.90mm to 2.50mm

Electrical Characteristics	
Capacitance	220nF ±10%
Rated Voltage	250VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	2272MΩ

Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Reflow
AEC-Q200	YES
Packing	Embossed (Plastic)Taping [180mm Reel]
Package Quantity	1000pcs
FIT (Failure In Time)	This will be displayed when you login to myTDK

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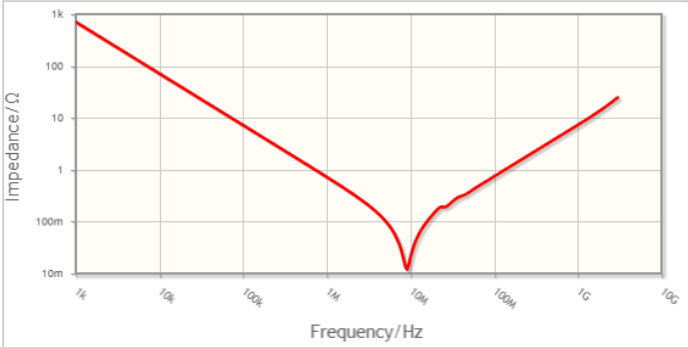
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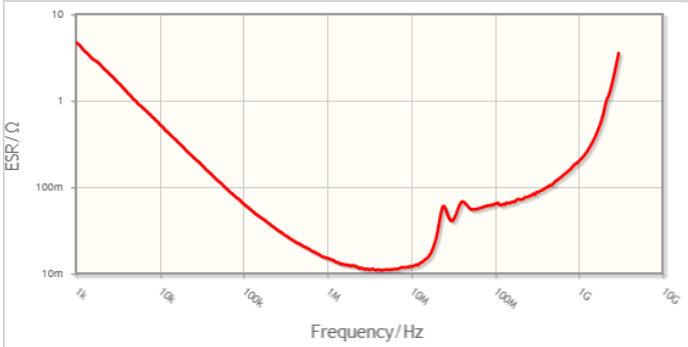
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



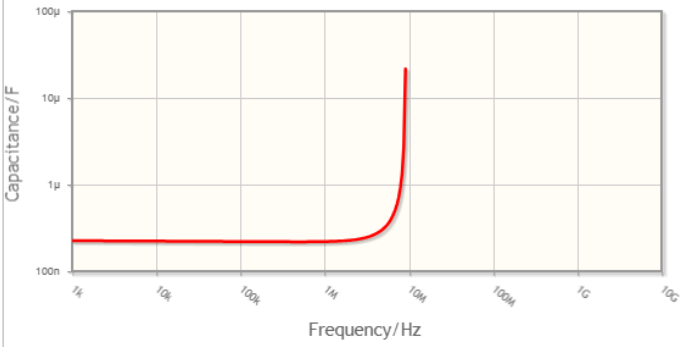
CGA6M3X7R2E224K200AA

ESR



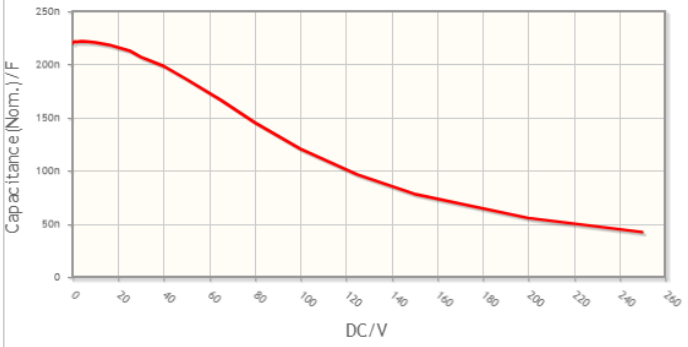
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Capacitance



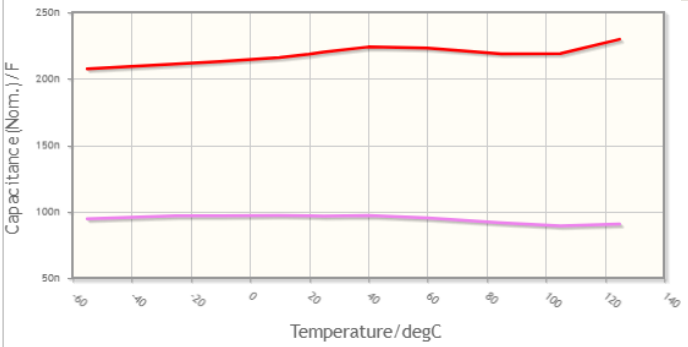
CGA6M3X7R2E224K200AA

DC Bias Characteristic



CGA6M3X7R2E224K200AA

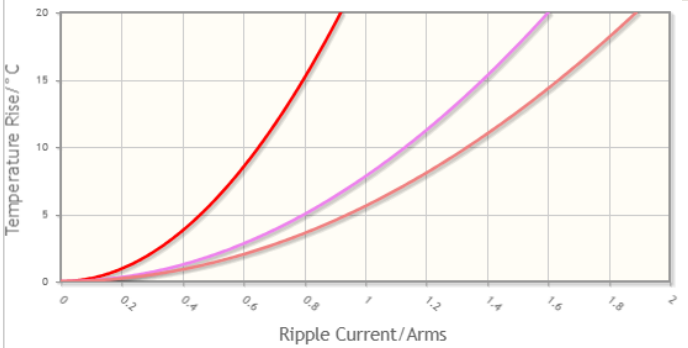
Temperature Characteristic



CGA6M3X7R2E224K200AA(No Bias)

CGA6M3X7R2E224K200AA(DC Bias = 125V)

Ripple Temperature Rising



CGA6M3X7R2E224K200AA(100kHz) CGA6M3X7R2E224K200AA(500kHz) CGA6M3X7R2E224K200AA(1MHz)

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Associated Images

Land Pattern (Terminal Connection)



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