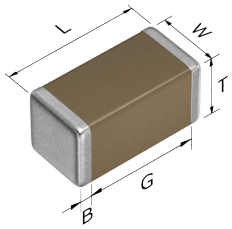
Multilayer Ceramic Chip Capacitors

CGA2B3X7S2A222K050BB

Product Status	Production
TDK Item Description	CGA2B3X7S2A222KT****
Applications	Automotive Grade
Feature	AEC-Q200AEC-Q200 MidMid Voltage (100 to 630V)
Series	CGA2(1005) [EIA 0402]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	1.00mm ±0.05mm
Width(W)	0.50mm ±0.05mm
Thickness(T)	0.50mm ±0.05mm
Terminal Width(B)	0.10mm Min.
Terminal Spacing(G)	0.30mm Min.
Recommended Land Pattern (PA)	0.30mm to 0.50mm
Recommended Land Pattern (PB)	0.35mm to 0.45mm
Recommended Land Pattern (PC)	0.40mm to 0.60mm

Electrical Characteristics	
Capacitance	2.2nF ±10%
Rated Voltage	100VDC
Temperature Characteristic	X7S(±22%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	10000MΩ

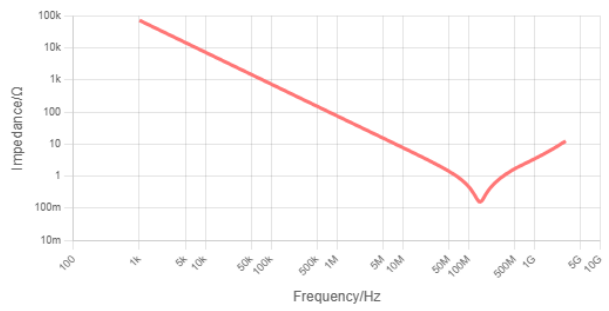
Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Reflow
AEC-Q200	YES
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	10000pcs
FIT (Failure In Time)	This will be displayed when you login to myTDK

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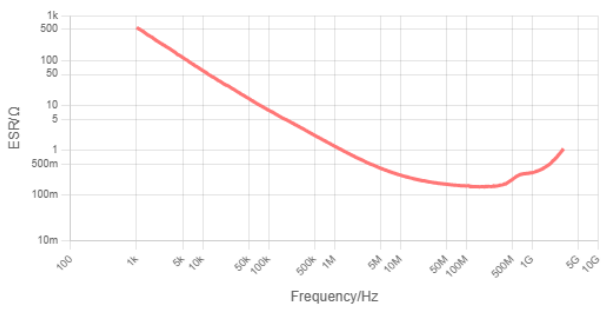
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



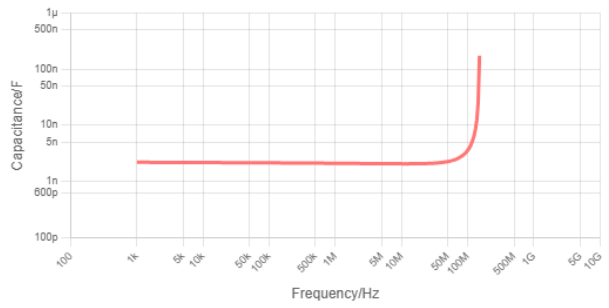
CGA2B3X7S2A222K050BB

ESR



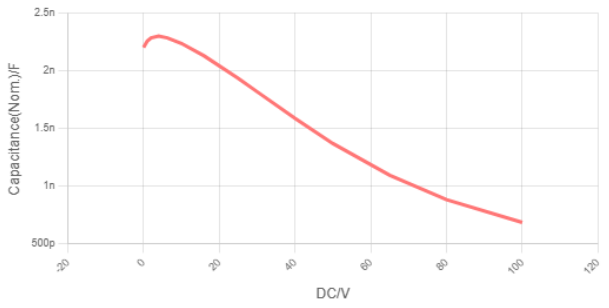
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Capacitance



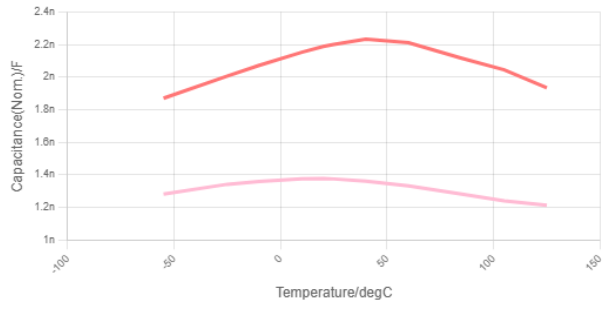
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DC Bias Characteristic



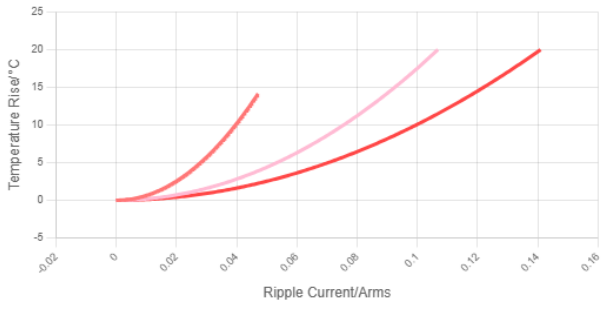
CGA2B3X7S2A222K050BB

Temperature Characteristic



CGA2B3X7S2A222K050BB(No Bias)
CGA2B3X7S2A222K050BB(DC Bias = 50V)

Ripple Temperature Rising



CGA2B3X7S2A222K050BB(100kHz)
CGA2B3X7S2A222K050BB(500kHz)
CGA2B3X7S2A222K050BB(1MHz)

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Associated Images

Land Pattern (Terminal Connection)



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