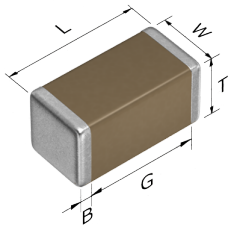
Creation Date : December 03, 2018 (GMT)

Multilayer Ceramic Chip Capacitors

CGA2B2X8R1H221K050BA

RoHS | REACH SVHC-Free | Halogen Free | Lead Free

TDK item description	CGA2B2X8R1H221KT****
Applications	Automotive Grade
Feature	150°C High Temperature Application AEC-Q200 AEC-Q200
Series	CGA2(1005) [EIA 0402]
Status	Production



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	220pF ±10%
Rated Voltage	50VDC
Temperature Characteristic	X8R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other	
Soldering Method	Reflow
AEC-Q200	Yes
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	10000pcs

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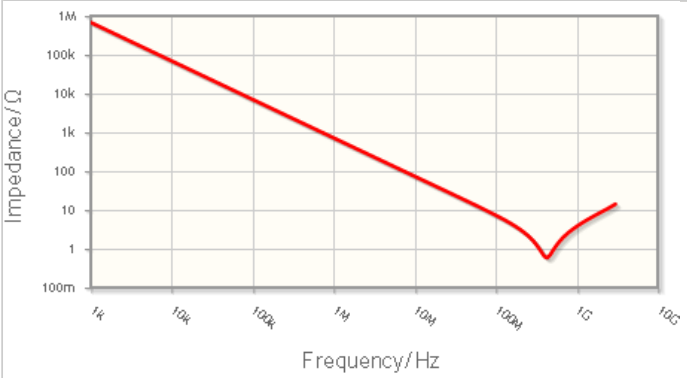
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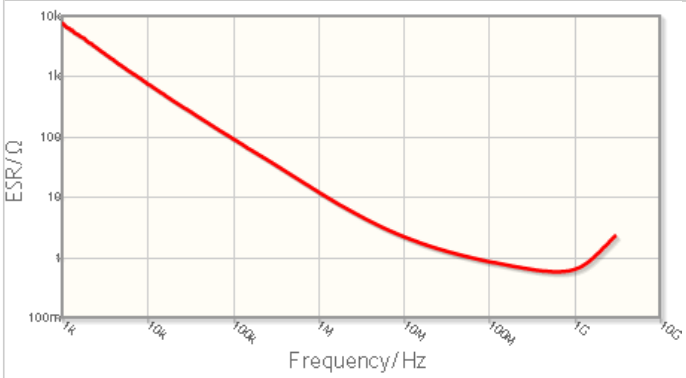
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



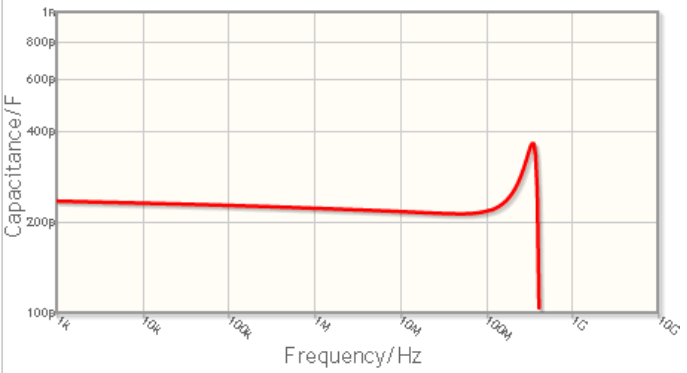
CGA2B2X8R1H221K050BA

ESR



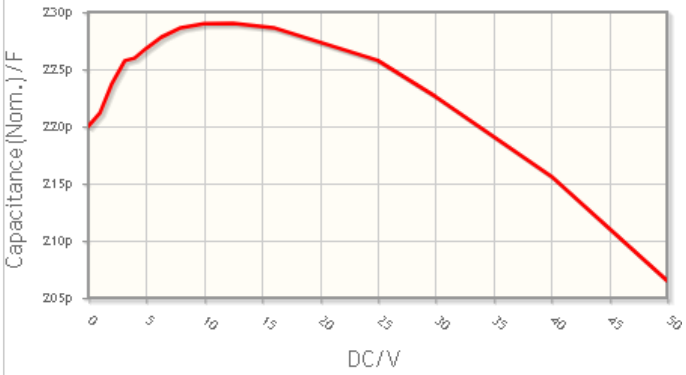
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Capacitance



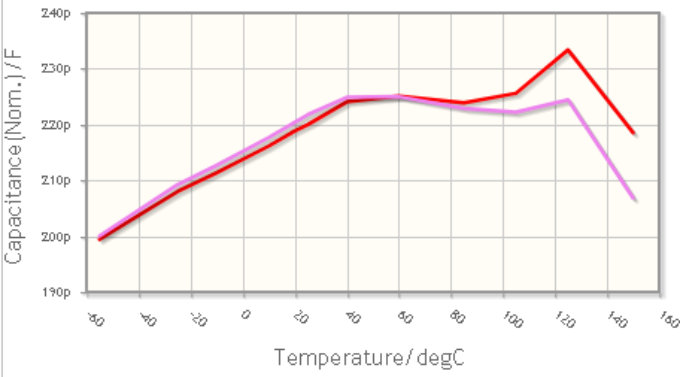
CGA2B2X8R1H221K050BA

DC Bias Characteristic



CGA2B2X8R1H221K050BA

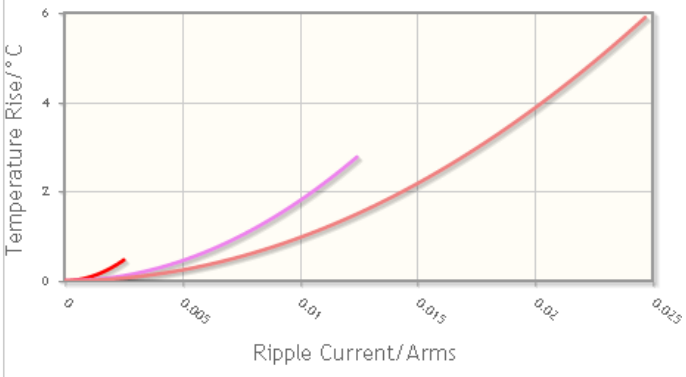
Temperature Characteristic



CGA2B2X8R1H221K050BA(No Bias)

CGA2B2X8R1H221K050BA(DC Bias = 25V)

Ripple Temperature Rising



CGA2B2X8R1H221K050BA(100kHz) CGA2B2X8R1H221K050BA(500kHz) CGA2B2X8R1H221K050BA(1MHz)

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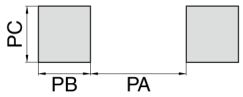
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Associated Images

Land Pattern (Terminal Connection)



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