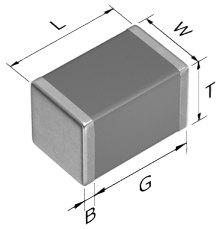
Multilayer Ceramic Chip Capacitors

C2012C0G2A222J085AA

Product Status	Production
TDK Item Description	C2012C0G2A222JT****
Applications	Commercial Grade Please refer to Part No. CGA4F2C0G2A222J085AA for Automotive use.
Feature	MidMid Voltage (100 to 630V)
Series	C2012 [EIA 0805]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	2.00mm ±0.20mm
Width(W)	1.25mm ±0.20mm
Thickness(T)	0.85mm ±0.15mm
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	2.2nF ±5%
Rated Voltage	100VDC
Temperature Characteristic	C0G(0±30ppm/°C)
Q (Min.)	1000
Insulation Resistance (Min.)	10000MΩ
Allowable Voltage	
Allowable Current	

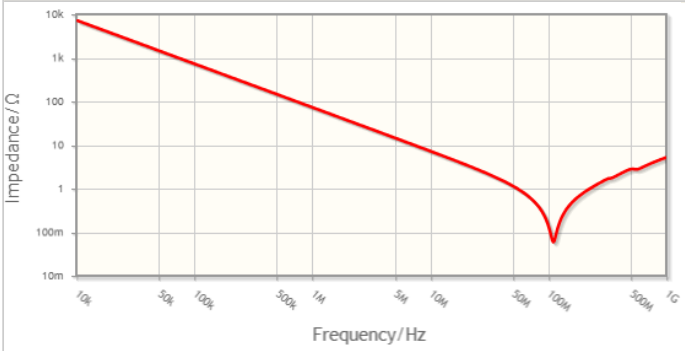
Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Wave (Flow) Reflow
AEC-Q200	NO
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	4000pcs

! 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



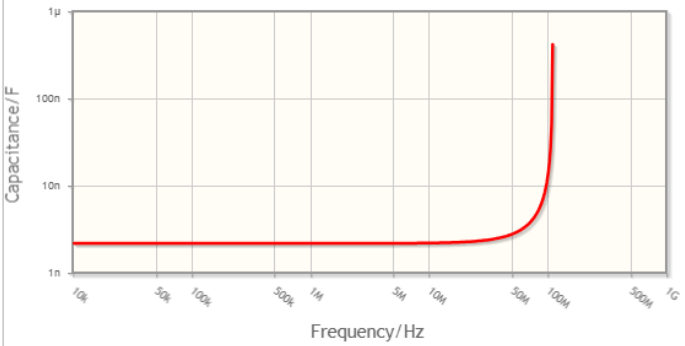
C2012C0G2A222J085AA

ESR



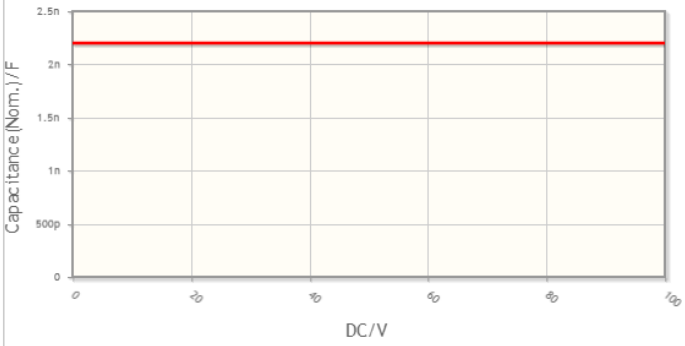
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Capacitance



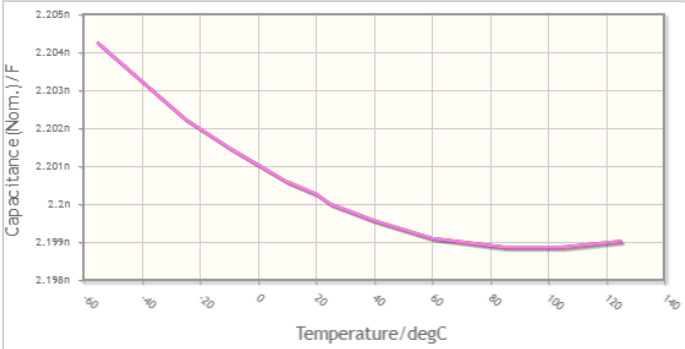
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DC Bias Characteristic



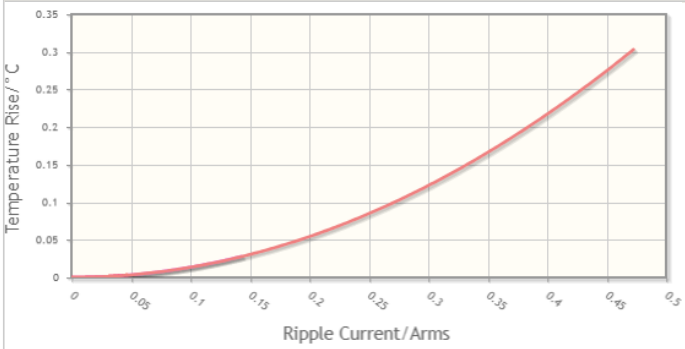
C2012C0G2A222J085AA

Temperature Characteristic



C2012C0G2A222J085AA(No Bias) C2012C0G2A222J085AA(DC Bias = 50V)

Ripple Temperature Rising



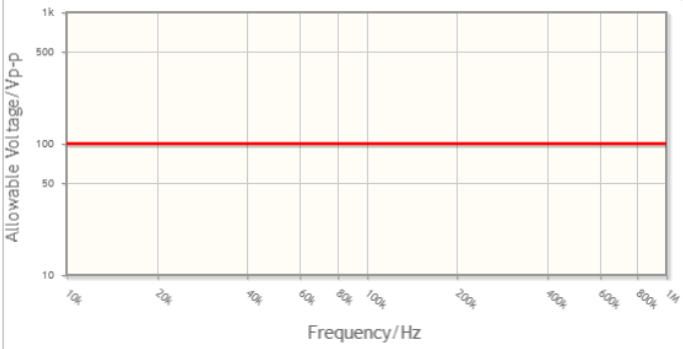
C2012C0G2A222J085AA(100kHz) C2012C0G2A222J085AA(300kHz) C2012C0G2A222J085AA(1000kHz)

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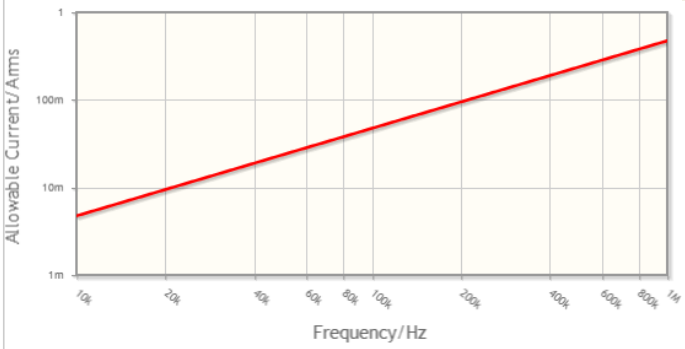
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Max. Allowable Voltage



C2012C0G2A222J085AA

Max. Allowable Current



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Associated Images

Land Pattern (Terminal Connection)



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