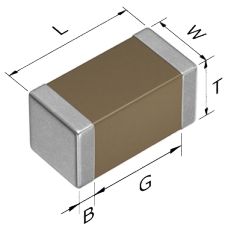
Multilayer Ceramic Chip Capacitors

C1608X8R1E104K080AA

Product Status	Production
TDK Item Description	C1608X8R1E104KT****
Applications	Commercial Grade Please refer to Part No. CGA3E2X8R1E104K080AA for Automotive use.
Feature	150°CHigh Temperature Application
Series	C1608 [EIA 0603]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	1.60mm ±0.10mm
Width(W)	0.80mm ±0.10mm
Thickness(T)	0.80mm ±0.10mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	0.30mm Min.
Recommended Land Pattern (PA)	0.70mm to 1.00mm(Flow Soldering) 0.60mm to 0.80mm(Reflow Soldering)
Recommended Land Pattern (PB)	0.80mm to 1.00mm(Flow Soldering) 0.60mm to 0.80mm(Reflow Soldering)
Recommended Land Pattern (PC)	0.60mm to 0.80mm(Flow Soldering) 0.60mm to 0.80mm(Reflow Soldering)

Electrical Characteristics	
Capacitance	100nF ±10%
Rated Voltage	25VDC
Temperature Characteristic	X8R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	5000MΩ

Other	
Operating Temp. Range	-55 to 150°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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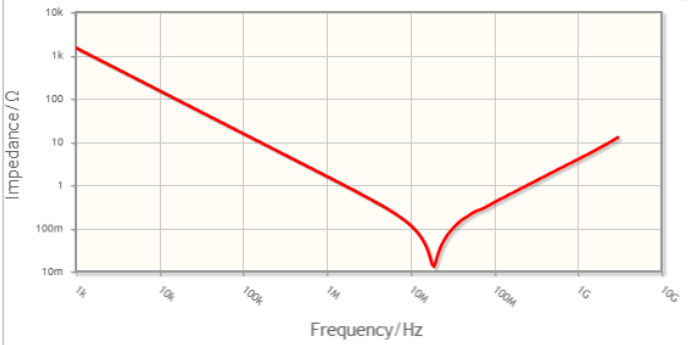
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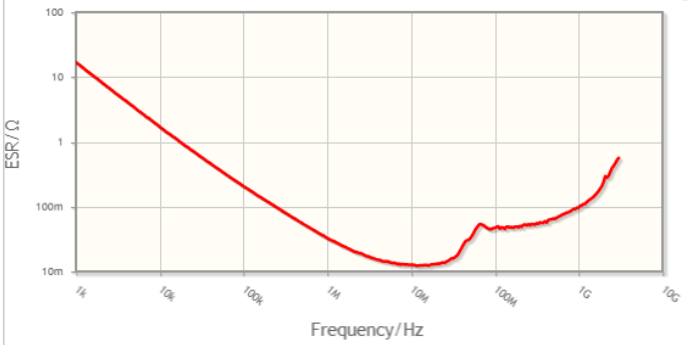
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



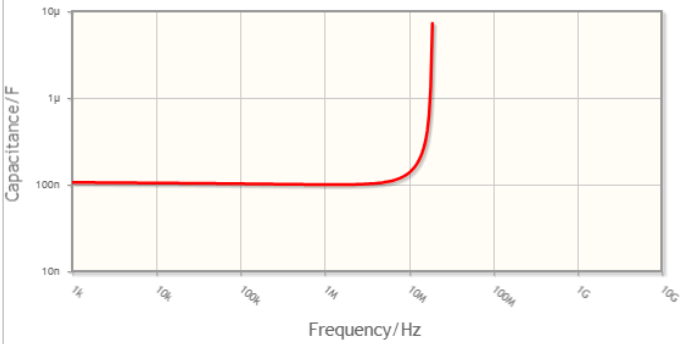
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ESR



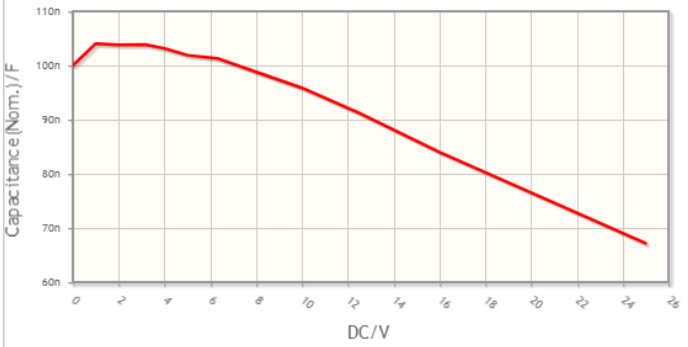
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Capacitance



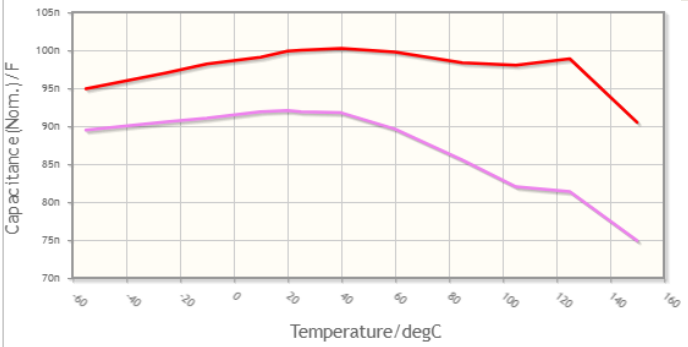
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DC Bias Characteristic



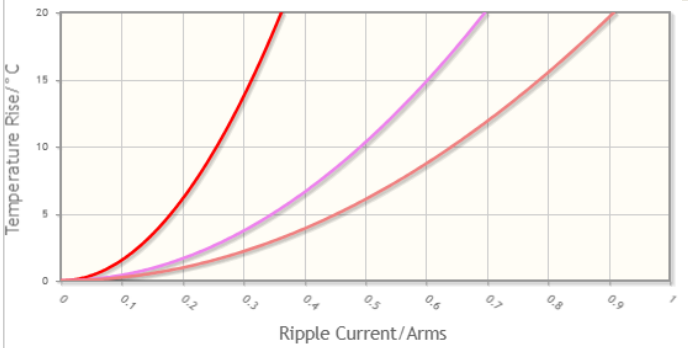
C1608X8R1E104K080AA

Temperature Characteristic



C1608X8R1E104K080AA(No Bias) C1608X8R1E104K080AA(DC Bias = 12.5V)

Ripple Temperature Rising



C1608X8R1E104K080AA(100kHz) C1608X8R1E104K080AA(500kHz) C1608X8R1E104K080AA(1MHz)

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Associated Images

Land Pattern (Terminal Connection)



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