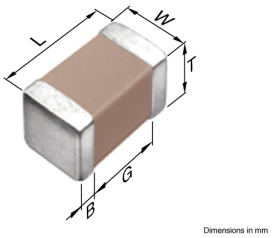
Creation Date : November 29, 2017 (GMT)

Multilayer Ceramic Chip Capacitors

C1608X8R1H152K080AE

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

TDK item description	C1608X8R1H152KT***S
Applications	Commercial Grade Please refer to Part No. CGA3E2X8R1H152K080AE for Automotive use.
Feature	150°C High Temperature Application Soft Soft Termination
Series	C1608 [EIA 0603]
Status	Production (Not Recommended for New Design)



Size	
Length(L)	1.60mm +0.20,-0.10mm
Width(W)	0.80mm +0.15,-0.10mm
Thickness(T)	0.80mm +0.15,-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	1.5nF ±10%
Rated Voltage	50VDC
Temperature Characteristic	X8R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other	
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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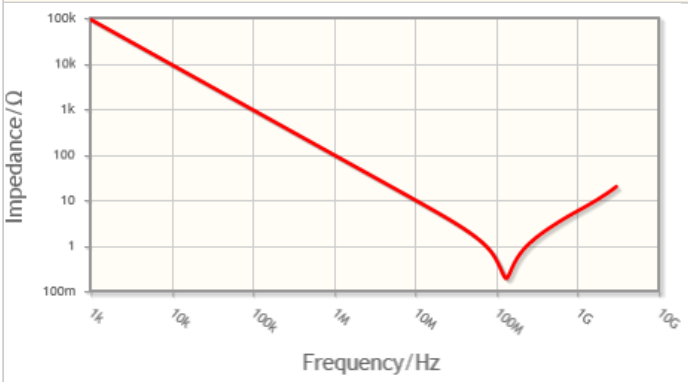
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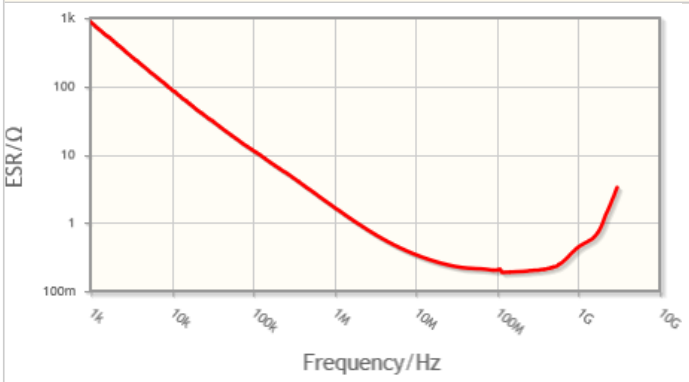
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



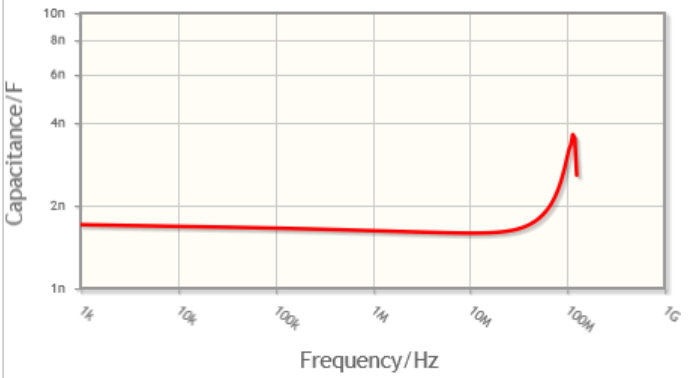
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ESR



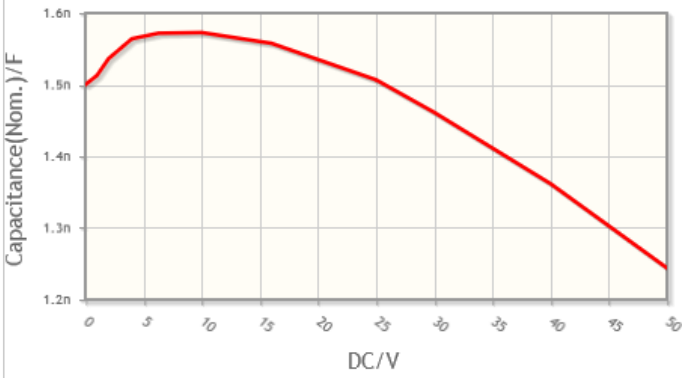
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Capacitance



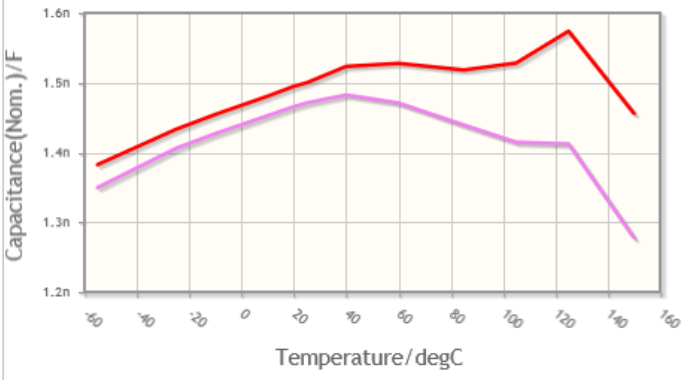
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DC Bias Characteristic



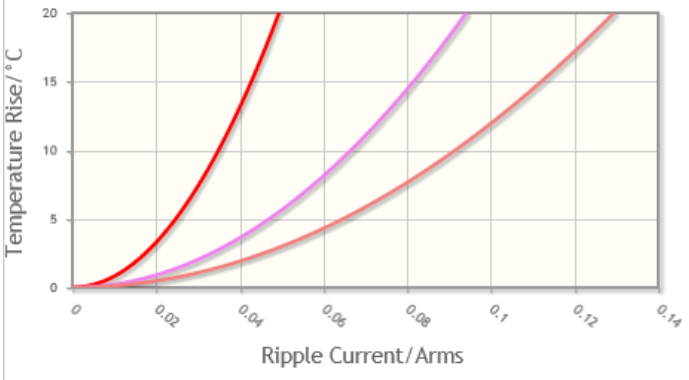
C1608X8R1H152K080AE

Temperature Characteristic



C1608X8R1H152K080AE(No Bias) C1608X8R1H152K080AE(DC Bias = 25V)

Ripple Temperature Rising



C1608X8R1H152K080AE(100kHz) C1608X8R1H152K080AE(500kHz) C1608X8R1H152K080AE(1MHz)

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Associated Images

Land Pattern (Terminal Connection)



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