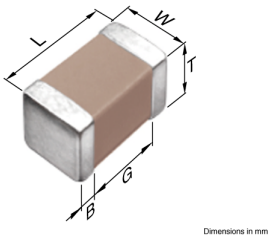
Creation Date : May 08, 2017 (GMT)

Multilayer Ceramic Chip Capacitors

C1608X7R1V154M080AB

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

TDK item description	C1608X7R1V154MT****
Applications	Commercial Grade Please refer to Part No. CGA3E3X7R1V154M080AB for Automotive use.
Feature	General General (Up to 50V)
Series	C1608 [EIA 0603]
Status	Production (Not Recommended for New Design)



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	150nF ±20%
Rated Voltage	35VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	3333MΩ

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.
! This PDF document was created based on the data listed on the TDK Corporation website.
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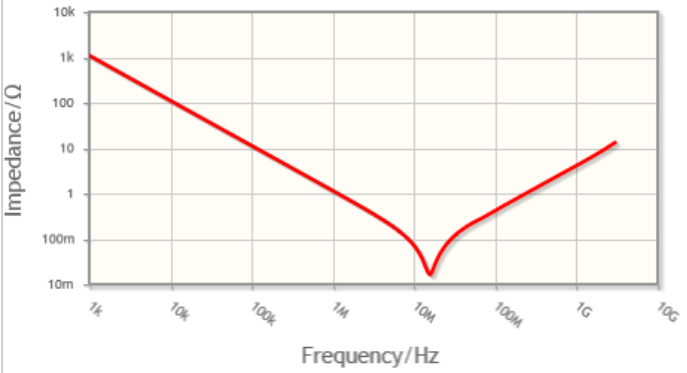
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



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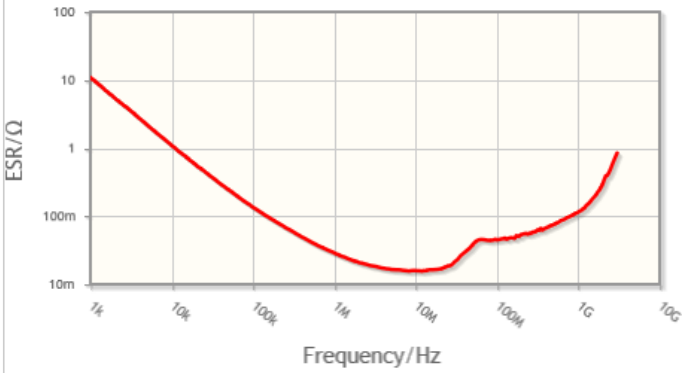
ESR



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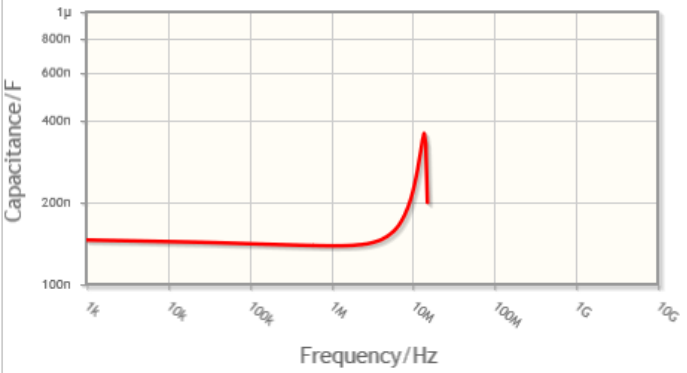
Capacitance



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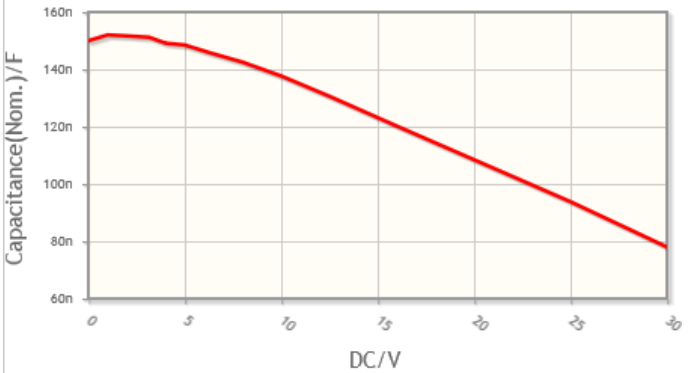
DC Bias Characteristic



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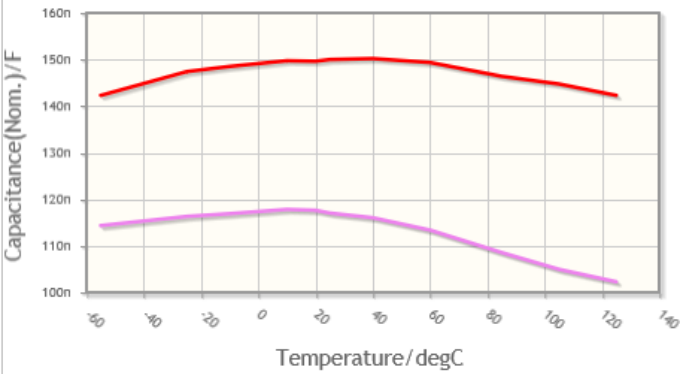
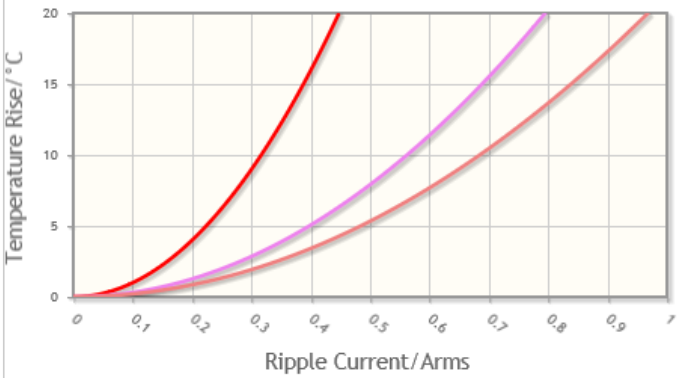
Temperature Characteristic



C1608X7R1V154M080AB(No Bias) C1608X7R1V154M080AB(DC Bias = 17.5V)

Ripple Temperature Rising



C1608X7R1V154M080AB(100kHz) C1608X7R1V154M080AB(500kHz) C1608X7R1V154M080AB(1MHz)

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Associated Images

Land Pattern (Terminal Connection)