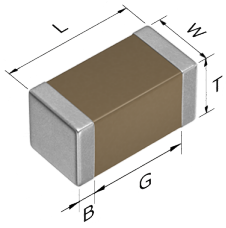
Multilayer Ceramic Chip Capacitors

CGA3E2X8R1H103K080AD

Product Status	Production
TDK Item Description	CGA3E2X8R1H103KT***B
Applications	Automotive Grade
Feature	AEC-Q200AEC-Q200 150°CHigh Temperature Application GlueConductive Epoxy Application
Series	CGA3(1608) [EIA 0603]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	1.60mm ±0.15mm
Width(W)	0.80mm ±0.15mm
Thickness(T)	0.80mm ±0.15mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	0.30mm Min.
Recommended Land Pattern (PA)	0.70mm to 1.00mm
Recommended Land Pattern (PB)	0.80mm to 1.00mm
Recommended Land Pattern (PC)	0.60mm to 0.80mm

Electrical Characteristics	
Capacitance	10nF ±10%
Rated Voltage	50VDC
Temperature Characteristic	X8R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	10000MΩ

Other	
Operating Temp. Range	-55 to 150°C
Soldering Method	Conductive Epoxy
AEC-Q200	YES
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.
! All specifications are subject to change without notice.

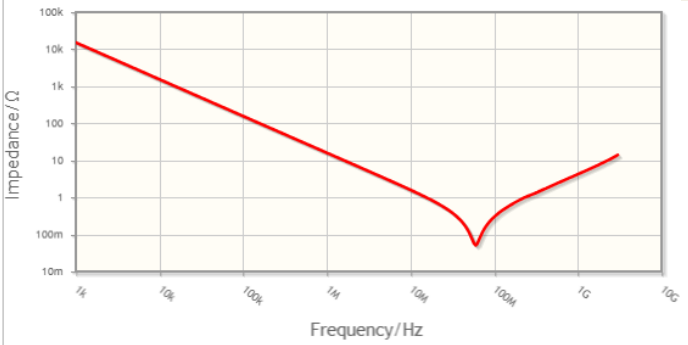
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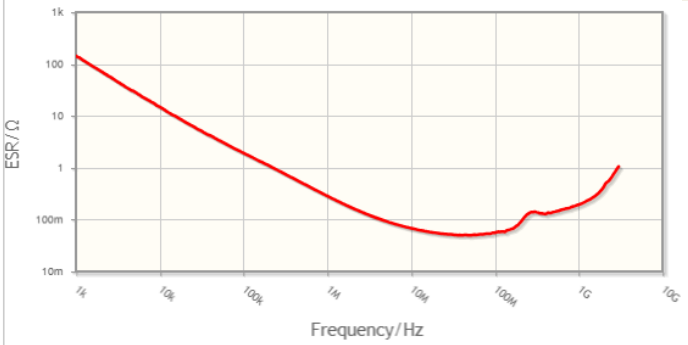
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



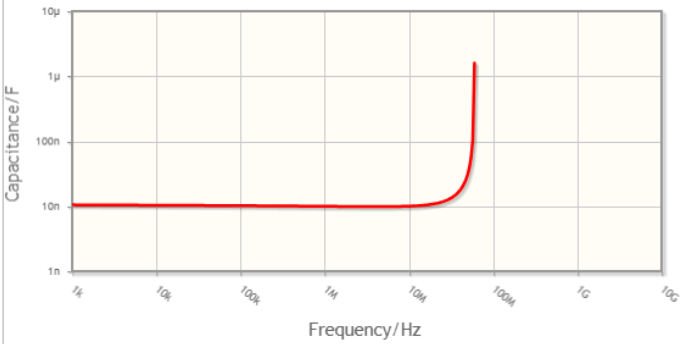
CGA3E2X8R1H103K080AD

ESR



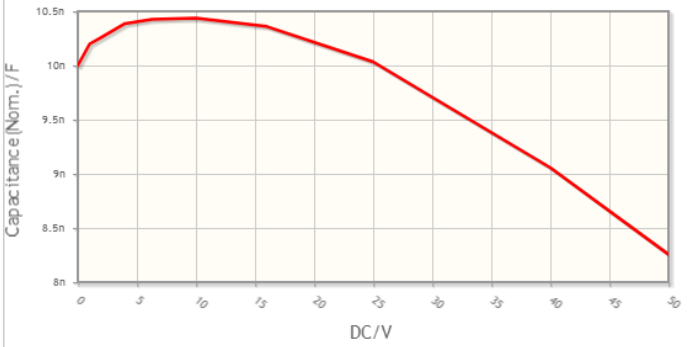
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Capacitance



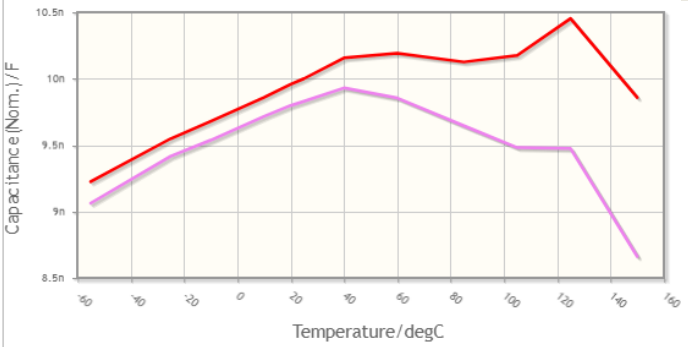
CGA3E2X8R1H103K080AD

DC Bias Characteristic



CGA3E2X8R1H103K080AD

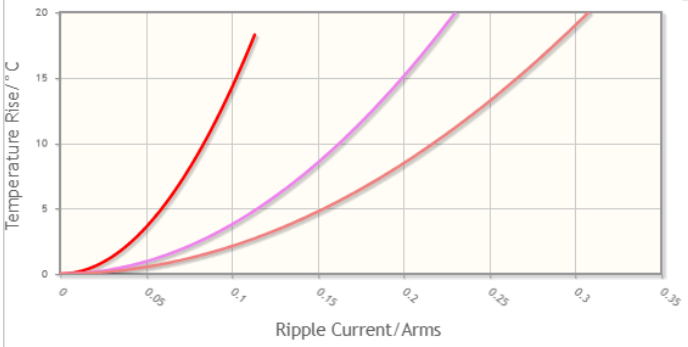
Temperature Characteristic



CGA3E2X8R1H103K080AD(No Bias)

CGA3E2X8R1H103K080AD(DC Bias = 25V)

Ripple Temperature Rising



CGA3E2X8R1H103K080AD(100kHz) CGA3E2X8R1H103K080AD(500kHz) CGA3E2X8R1H103K080AD(1MHz)

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