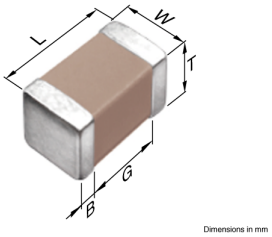
Creation Date : June 30, 2017 (GMT)

Multilayer Ceramic Chip Capacitors

CGA5L1X7R1C685K160AC

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

TDK item description	CGA5L1X7R1C685KT****
Applications	Automotive Grade
Feature	General (Up to 50V) AEC-Q200
Series	CGA5(3216) [EIA 1206]
Status	Production



Size	
Length(L)	3.20mm +0.30,-0.10mm
Width(W)	1.60mm +0.30,-0.10mm
Thickness(T)	1.60mm +0.30,-0.10mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	1.00mm Min.
Recommended Land Pattern (PA)	2.10mm to 2.50mm(Flow Soldering) 2.00mm to 2.40mm(Reflow Soldering)
Recommended Land Pattern (PB)	1.10mm to 1.30mm(Flow Soldering) 1.00mm to 1.20mm(Reflow Soldering)
Recommended Land Pattern (PC)	1.00mm to 1.30mm(Flow Soldering) 1.10mm to 1.60mm(Reflow Soldering)

Electrical Characteristics	
Capacitance	6.8µF ±10%
Rated Voltage	16VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	14MΩ

Other	
Soldering Method	Wave (Flow) Reflow
AEC-Q200	Yes
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs

! 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.

Copyright(c) TDK Corporation. All rights reserved.

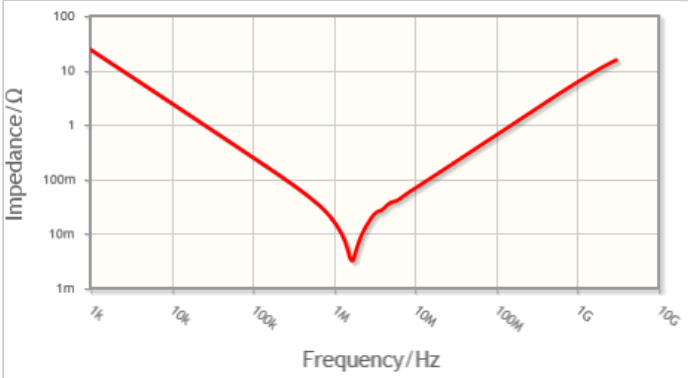
Multilayer Ceramic Chip Capacitors

CGA5L1X7R1C685K160AC

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

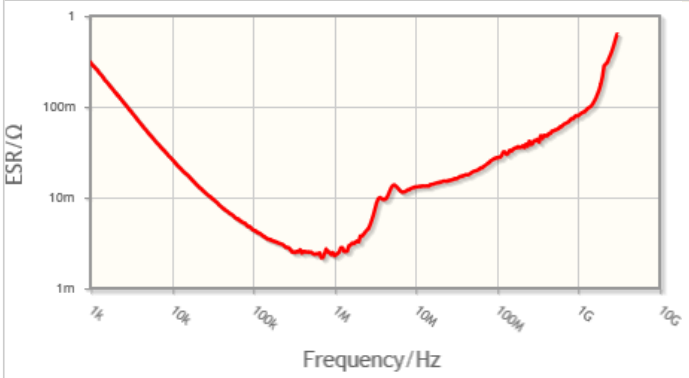
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



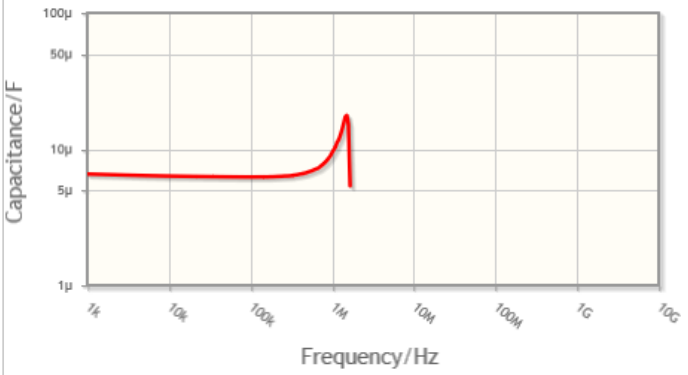
CGA5L1X7R1C685K160AC

ESR



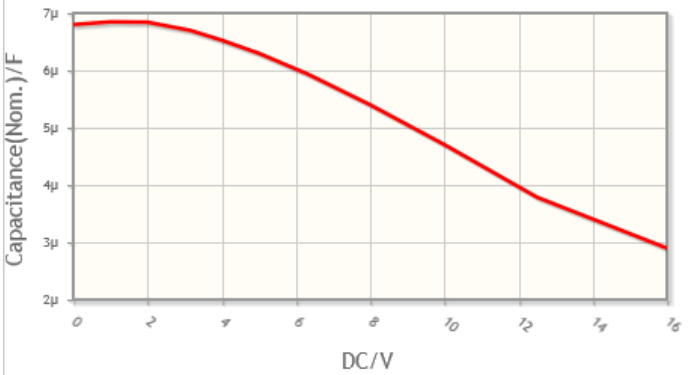
CGA5L1X7R1C685K160AC

Capacitance



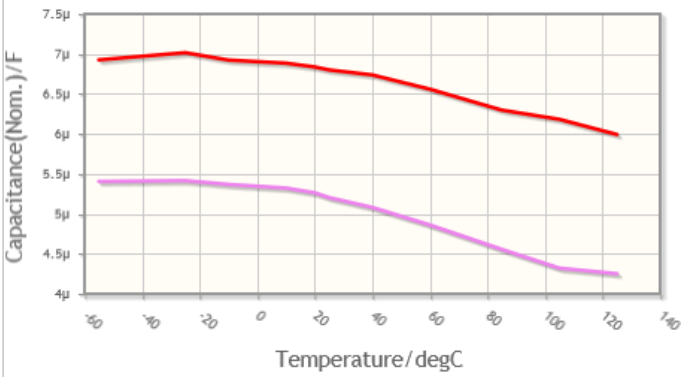
CGA5L1X7R1C685K160AC

DC Bias Characteristic



CGA5L1X7R1C685K160AC

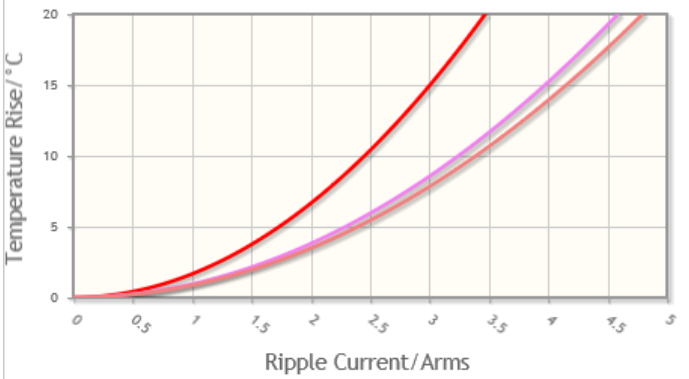
Temperature Characteristic



CGA5L1X7R1C685K160AC(No Bias)

CGA5L1X7R1C685K160AC(DC Bias = 8V)

Ripple Temperature Rising



CGA5L1X7R1C685K160AC(100kHz) CGA5L1X7R1C685K160AC(500kHz) CGA5L1X7R1C685K160AC(1MHz)

! 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.

Copyright(c) TDK Corporation. All rights reserved.

Multilayer Ceramic Chip Capacitors

CGA5L1X7R1C685K160AC

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

Associated Images

Land Pattern (Terminal Connection)

! 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.

Copyright(c) TDK Corporation. All rights reserved.