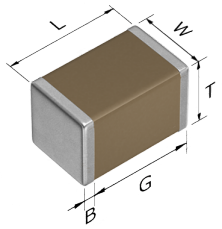
Multilayer Ceramic Chip Capacitors

CGA4J3X7R1E105K125AD

Product Status	Production
TDK Item Description	CGA4J3X7R1E105KT***B
Applications	Automotive Grade
Feature	AEC-Q200AEC-Q200 GlueConductive Epoxy Application
Series	CGA4(2012) [EIA 0805]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	2.00mm ±0.25mm
Width(W)	1.25mm ±0.25mm
Thickness(T)	1.25mm ±0.25mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	0.50mm Min.
Recommended Land Pattern (PA)	1.00mm to 1.30mm
Recommended Land Pattern (PB)	1.00mm to 1.20mm
Recommended Land Pattern (PC)	0.80mm to 1.10mm

Electrical Characteristics	
Capacitance	1µF ±10%
Rated Voltage	25VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	500MΩ

Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Conductive Epoxy
AEC-Q200	YES
Packing	Embossed (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.

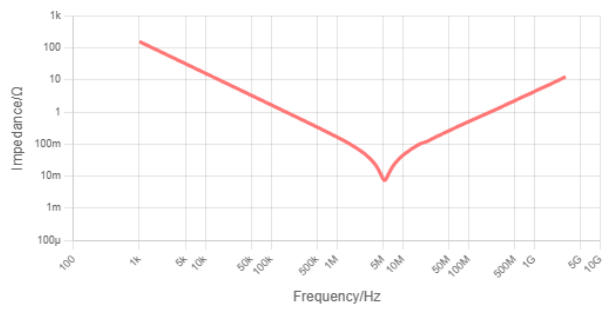
Copyright(c) TDK Corporation. All rights reserved.
Downloaded from Arrow.com.

Multilayer Ceramic Chip Capacitors

CGA4J3X7R1E105K125AD

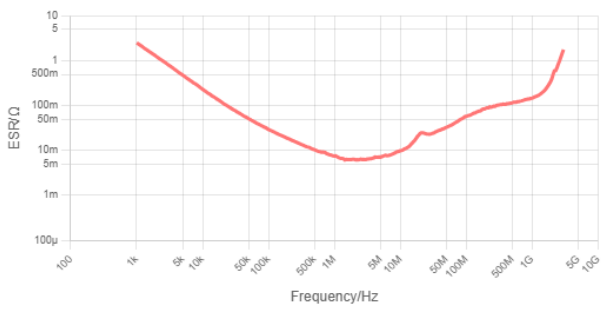
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



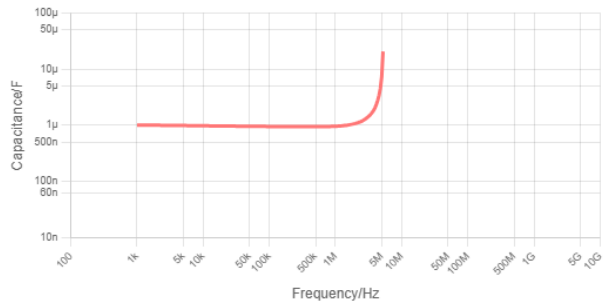
CGA4J3X7R1E105K125AD

ESR



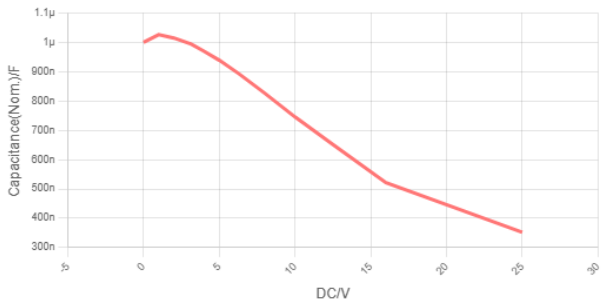
CGA4J3X7R1E105K125AD

Capacitance



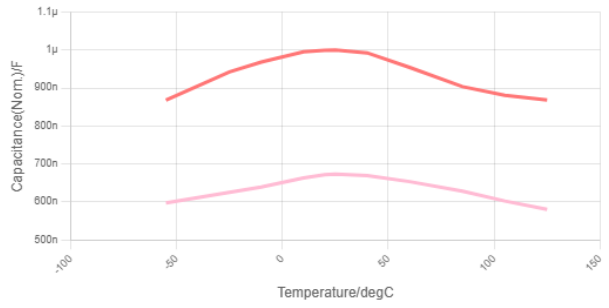
CGA4J3X7R1E105K125AD

DC Bias Characteristic



CGA4J3X7R1E105K125AD

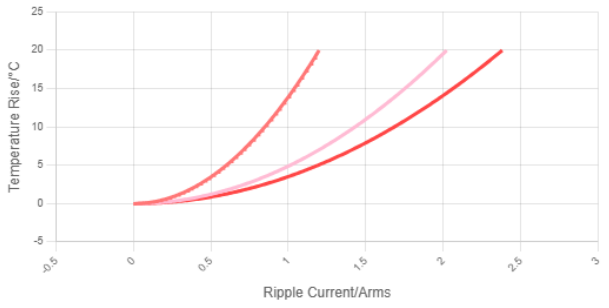
Temperature Characteristic



CGA4J3X7R1E105K125AD(No Bias)

CGA4J3X7R1E105K125AD(DC Bias = 12.5V)

Ripple Temperature Rising



CGA4J3X7R1E105K125AD(100kHz)

CGA4J3X7R1E105K125AD(500kHz)

CGA4J3X7R1E105K125AD(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.
Downloaded from Arrow.com.