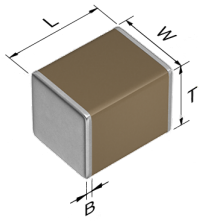
Multilayer Ceramic Chip Capacitors

C3225X7R1E685K250AB

Product Status	Production (NRND)
TDK Item Description	C3225X7R1E685KT****
Applications	Commercial Grade Please refer to Part No. CGA6P3X7R1E685K250AB for Automotive use.
Feature	GeneralGeneral (Up to 75V)
Series	C3225 [EIA 1210]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	3.20mm ±0.40mm
Width(W)	2.50mm ±0.30mm
Thickness(T)	2.50mm ±0.30mm
Terminal Width(B)	0.20mm Min.
Recommended Land Pattern (PA)	2.00mm to 2.40mm
Recommended Land Pattern (PB)	1.00mm to 1.20mm
Recommended Land Pattern (PC)	1.90mm to 2.50mm

Electrical Characteristics	
Capacitance	6.8µF ±10%
Rated Voltage	25VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	73MΩ

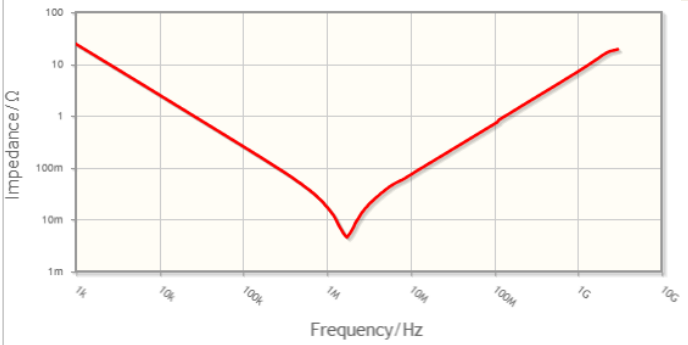
Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Reflow
AEC-Q200	NO
Packing	Embossed (Plastic)Taping [180mm Reel]
Package Quantity	1000pcs
FIT (Failure In Time)	This will be displayed when you login to myTDK

! 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.

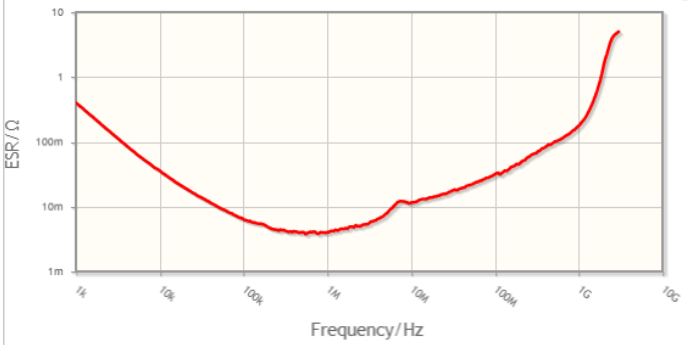
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



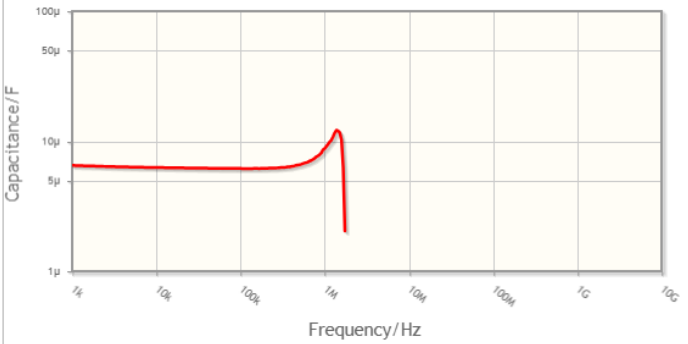
C3225X7R1E685K250AB

ESR



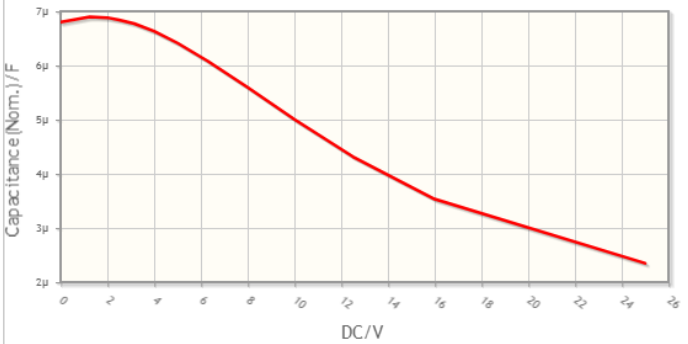
C3225X7R1E685K250AB

Capacitance



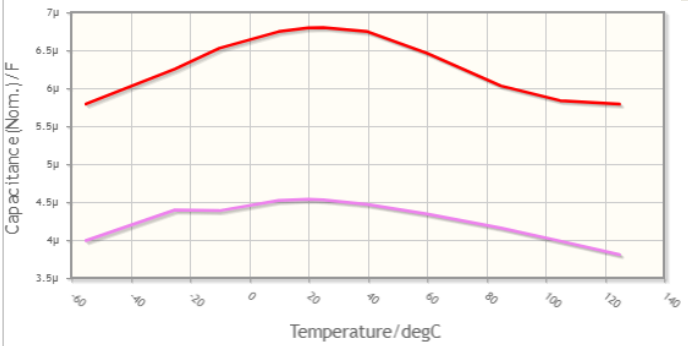
C3225X7R1E685K250AB

DC Bias Characteristic



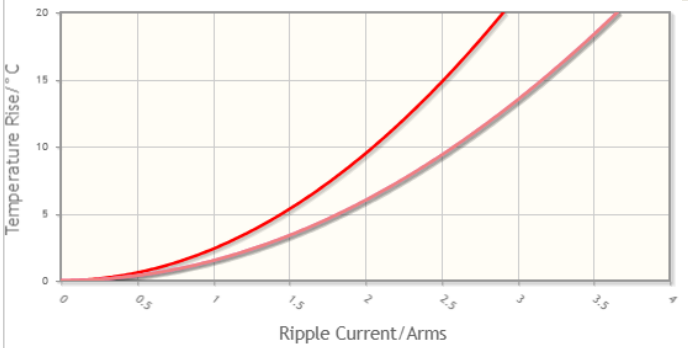
C3225X7R1E685K250AB

Temperature Characteristic



C3225X7R1E685K250AB(No Bias) C3225X7R1E685K250AB(DC Bias = 12.5V)

Ripple Temperature Rising



C3225X7R1E685K250AB(100kHz) C3225X7R1E685K250AB(500kHz) C3225X7R1E685K250AB(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.

Multilayer Ceramic Chip Capacitors

C3225X7R1E685K250AB

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.
Downloaded from Arrow.com.