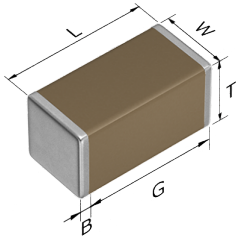


Product Status	Production
TDK Item Description	C3216X7R2A105KT****
Applications	Commercial Grade Please refer to Part No. CGA5L2X7R2A105K160AA for Automotive use.
Feature	MidMid Voltage (100 to 630V)
Series	C3216 [EIA 1206]
Brand	TDK
Environmental Compliance	RoHS REACH Halogen Free Lead Free



Size	
Length(L)	3.20mm ±0.20mm
Width(W)	1.60mm ±0.20mm
Thickness(T)	1.60mm ±0.20mm
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	1μF ±10%
Rated Voltage	100VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	500MΩ

Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Wave (Flow) Reflow
AEC-Q200	NO
Packing	Embossed (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs
FIT (Failure In Time)	 This will be displayed when you login to myTDK

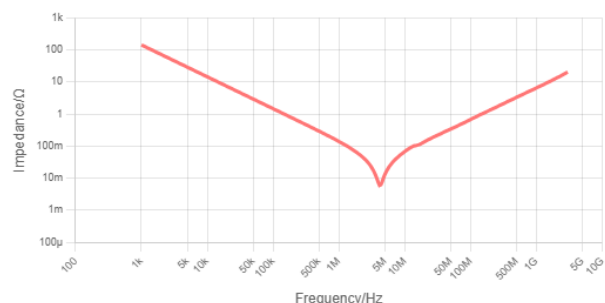
! Images are for reference only and show exemplary products.

! This PDF document was created based on the data listed on the TDK Corporation website.

! All specifications are subject to change without notice.

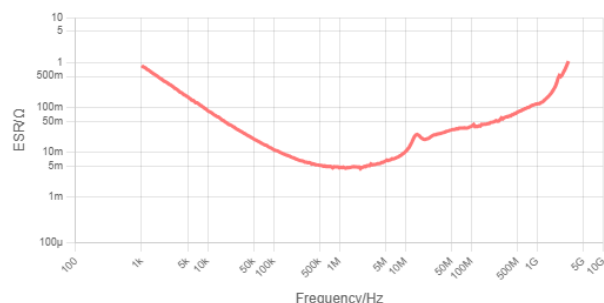
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



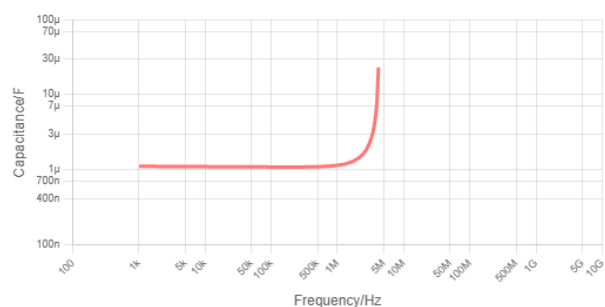
● C3216X7R2A105K160AA

ESR



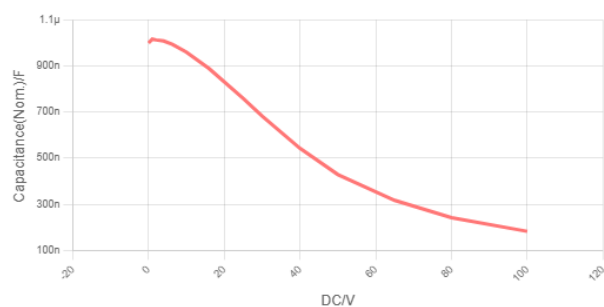
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Capacitance



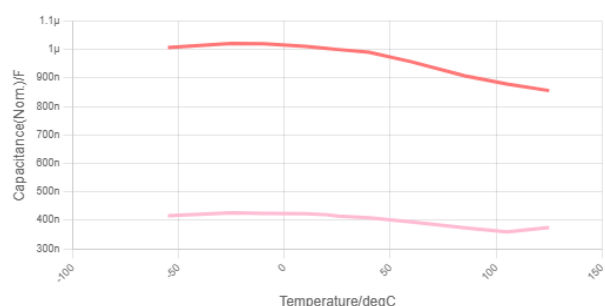
● C3216X7R2A105K160AA

DC Bias Characteristic



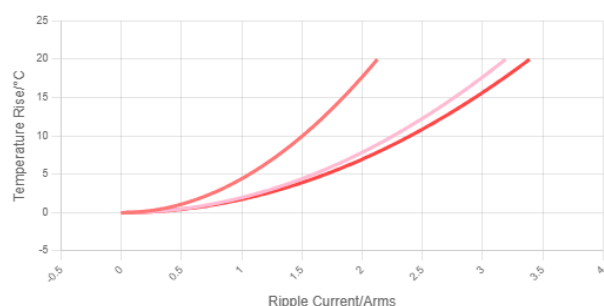
● C3216X7R2A105K160AA

Temperature Characteristic



● C3216X7R2A105K160AA(No Bias) ● C3216X7R2A105K160AA(DC Bias = 50V)

Ripple Temperature Rising



● C3216X7R2A105K160AA(100kHz) ● C3216X7R2A105K160AA(500kHz) ● C3216X7R2A105K160AA(1MHz)

Associated Images

