

Multilayer Ceramic Chip Capacitors

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Search by Part No.

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Cross Reference

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Tech Note

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FAQ

C3216X7R1E225K160AA



TDK item description ? C3216X7R1E225K****



Commercial Grade

Applications

Please refer to Part No. [CGA5L2X7R1E225K160AA](#) for Automotive use.

Feature

General

General (Up to 50V)

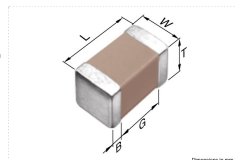
Series

C3216 [EIA 1206]

Status



Production (Not Recommended for New Design)



Images are for reference only and show exemplary products.

PDF file of this page

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Documents

Catalog

Specification

RoHS Certificate

SVHC/REACH Certificate

Characterization Sheet

Promotion Video

Sample Kits

Technical Support Tools

S-parameter

SPICE Netlist (Simple)

SPICE Netlist (Precision)

Equivalent Circuit Model

DC Bias/Superimposition Model (HSPICE)

Pages related to the series to which this product belongs

Description of icons | Environment

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	2.2μF ±10%
Rated Voltage	25VDC
Temperature Characteristic ?	X7R(±15%)
Dissipation Factor (Max.)	3%
Insulation Resistance (Min.)	227MΩ

Other

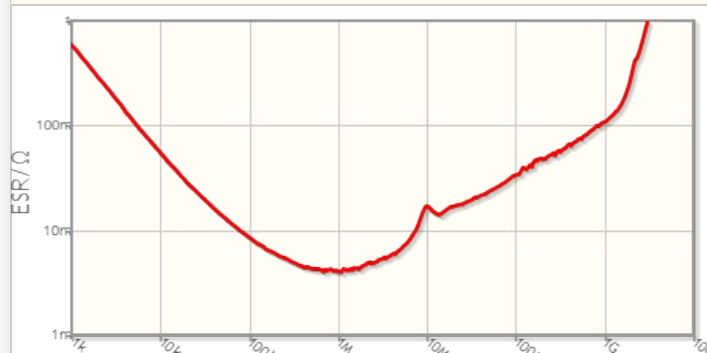
Soldering Method	Flow Reflow
AEC-Q200	No
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs

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

Impedance



ESR



Frequency/Hz

C3216X7R1E225K160AA

Change settings

Capacitance



C3216X7R1E225K160AA

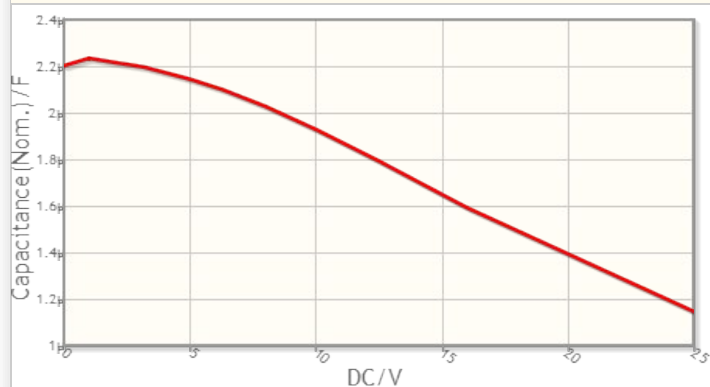
Change settings

Frequency/Hz

C3216X7R1E225K160AA

Change settings

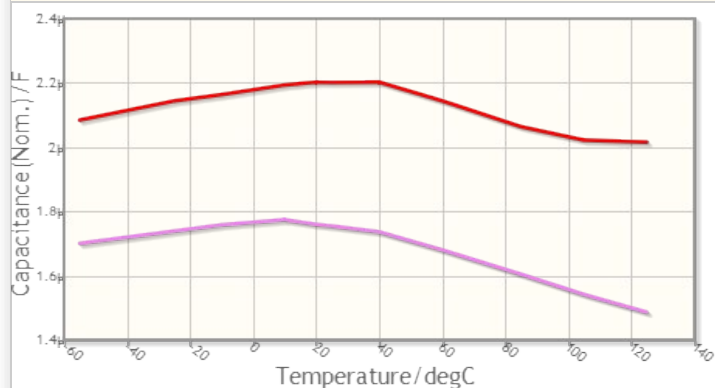
DC Bias Characteristic



C3216X7R1E225K160AA

Change settings

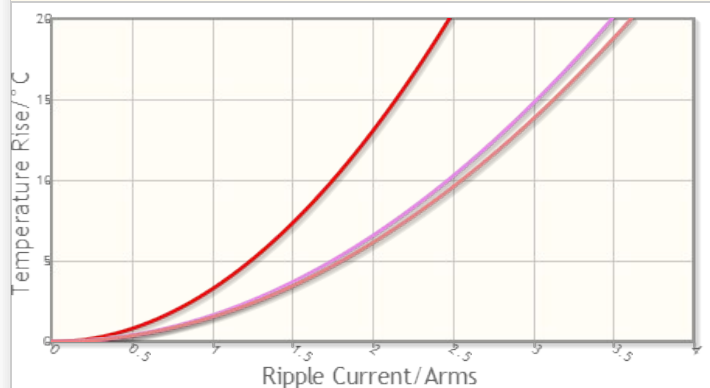
Temperature Characteristic



C3216X7R1E225K160AA(N o Bias) C3216X7R1E225K160AA(DC Bias = 12.5V)

Change settings

Ripple Temperature Rising



C3216X7R1E225K160AA(100k Hz) C3216X7R1E225K160AA(500k Hz) C3216X7R1E225K160AA(1M Hz)

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