Multilayer Ceramic Chip Capacitors

C3225X7R1H335K250AB

Product Status	Production (NRND)
TDK Item Description	C3225X7R1H335KT****
Applications	Commercial Grade Please refer to Part No. CGA6P3X7R1H335K250AB for Automotive use.
Feature	General (Up to 75V)
Series	C3225 [EIA 1210]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Images are for reference only and show example products.

Catalog
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Tech Info

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DOCUMENTS
- Specification
- RoHS Certificate
- SVHC / REACH Certificate
- Sample Kits

TECHNICAL SUPPORT TOOLS
- Parts Selection Tool TDK Meister
- S-parameter
- SPICE Netlist (Simple)
- SPICE Netlist (Precision)
- Equivalent Circuit Model
- DC Bias / Superimpotision Model (HSpice)
- DC Bias / Superimpotision Model (LTspice)
- DC Bias / Superimpotision Model (PSpice)

3RD PARTY ECAD MODELS
- SnapMagic (Symbol, Footprint, 3D model)

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	3.3μF ±10%
Rated Voltage	50VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	151MΩ

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

Related articles



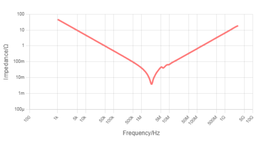
Replacing Electrolytic Capacitor with MLCC, Revised Guide
Traditionally, aluminum electrolytic capacitors and tantalum electrolytic capacitors

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Characteristic Graph

This data is for reference only and does not guarantee product characteristics.

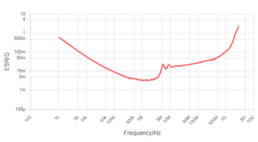
Impedance



C3225X7R1H335K250AB

GRAPH SETTINGS

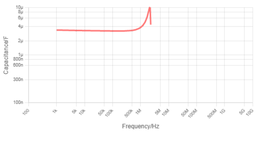
ESR



C3225X7R1H335K250AB

GRAPH SETTINGS

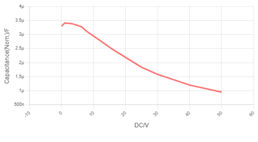
Capacitance



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GRAPH SETTINGS

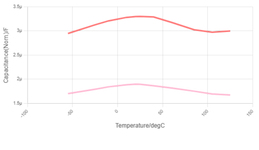
DC Bias Characteristic



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GRAPH SETTINGS

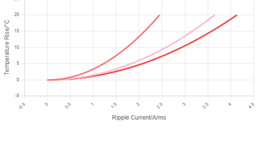
Temperature Characteristic



C3225X7R1H335K250AB(No Bias) C3225X7R1H335K250AB(DC Bias = 25V)

GRAPH SETTINGS

Ripple Temperature Rising



C3225X7R1H335K250AB(100kHz) C3225X7R1H335K250AB(500kHz) C3225X7R1H335K250AB(1MHz)

GRAPH SETTINGS

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MULTILAYER CERAMIC CHIP CAPACITORS
C1005CH2A471K050BA
Capacitance=470pF
Edc=100V
T.C.=CH
LxWxT:1x0.5x0.5mm
Mid Volt. (100 to 630V)



MULTILAYER CERAMIC CHIP CAPACITORS
C1005JB1E105M050BC
Capacitance=1μF
Edc=25V
T.C.=JB
LxWxT:1x0.5x0.5mm
General



MULTILAYER CERAMIC CHIP CAPACITORS
C1005JB1V474K050BC
Capacitance=0.47μF
Edc=35V
T.C.=JB
LxWxT:1x0.5x0.5mm
General