

C1206X153J1RECAUTO7210

ESD SMD Auto X7R, Ceramic, 0.015 uF, 5%, 100 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Automotive Grade, 1206



Click here for the 3D model.

Dimensions	
Chip Size	1206
L	3.3mm +/-0.4mm
W	1.6mm +/-0.35mm
Т	0.78mm +/-0.20mm
В	0.6mm +/-0.25mm

ackaging Specifications	
Packaging	T&R, 330mm, Plastic Tape
Packaging Quantity	10000

General Information	
Series	ESD SMD Auto X7R
Style	SMD Chip
Description	SMD, MLCC, Temperature Stable, Electro Static Discharge, Automotive Grade
Features	Temperature Stable, Automotive Grade
RoHS	Yes
Termination	Flexible Termination
Marking	No
Qualifications	AEC-Q200
AEC-Q200	Yes
Component Weight	17 mg
Shelf Life	78 Weeks
MSL	1

Specifications			
Capacitance	0.015 uF		
Measurement Condition	1 kHz 1.0Vrms		
Capacitance Tolerance	5%		
Voltage DC	100 VDC		
ESD Level per AEC-Q200	25,000 V ESD Level		
Dielectric Withstanding Voltage	250 VDC		
Temperature Range	-55/+125°C		
Temperature Coefficient	X7R		
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	15%, 1kHz 1.0Vrms		
Dissipation Factor	2.5%1kHz1.0Vrms		
Aging Rate	3% Loss/Decade Hour: Referee Time is 1000 Hours		
Insulation Resistance	66.6667 GOhms		

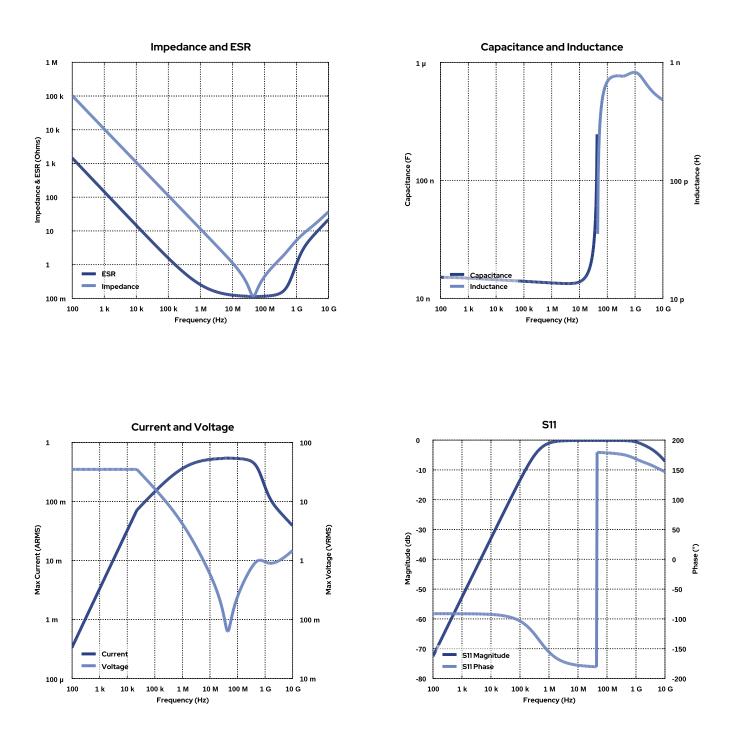
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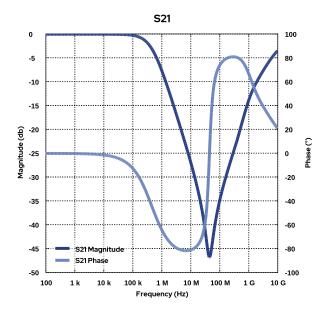
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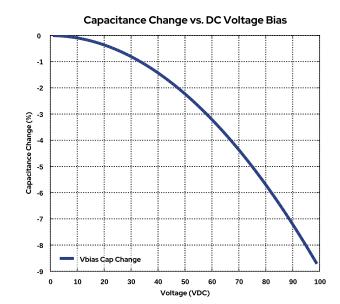
## Simulations

For the complete simulation environment please visit K-SIM.











## These are simulations.

This is not a specification!

The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

The responses shown do not represent a specified or implied maximum capability of the device for all applications.

- The ESR used for ripple "Ripple Current/Voltage vs. Frequency" plots is the ESR at ambient temperature.
- The ESR in the "Temperature Rise vs. Ripple Current" plots is adjusted to each incremental temperature rise before the power and ripple current is calculated.
- The effects shown herein are based on measured data from a multiple part sample of the parts in question.
- Ripple capability of this device will be factored by thermal resistance (Rth) created by circuit traces (addi affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance. The peak voltages generated in the "Temperature Rise vs. Combined Ripple Currents" plot are calculated for each frequency and are not combined with voltages generated at any other
- harmonics.
- Please consult with the catalog or field applications engineer for maximum capability of the device in specific applications.

All product information and data (collectively, the "Information") are subject to change without notice.

KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels. The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation effects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

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If you have any questions please contact K-SIM.