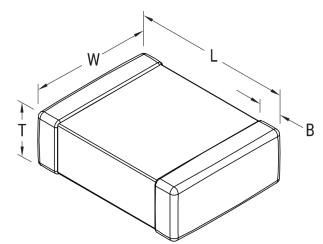


## C1210C226K8RALTU

Aliases (C1210C226K8RAL7800)

SMD Comm X7R SnPb, Ceramic, 22 uF, 10%, 10 VDC, X7R, SMD, MLCC, Temperature Stable, SnPb Termination, 1210



Click here for the 3D model.

Dimensions	
Chip Size	1210
L	3.2mm +/-0.2mm
W	2.5mm +/-0.2mm
Т	2.5mm +/-0.30mm
В	0.5mm +/-0.25mm

Packaging Specifications	aging Specifications	
Packaging	T&R, 180mm, Plastic Tape	
Packaging Quantity	1000	

General Information		
Series	SMD Comm X7R SnPb	
Style	SMD Chip	
Description	SMD, MLCC, Temperature Stable, SnPb Termination	
Features	SnPb Termination	
RoHS	No	
Prop 65	<b>WARNING:</b> Cancer and reproductive harm - http://www.p65warnings.ca.gov.	
SCIP Number	5549986b-60cf-4a2a-afbb-4ad1d7a11dcb	
Termination	Lead (SnPb)	
Marking	No	
AEC-Q200	No	
Component Weight	135 mg	
Shelf Life	78 Weeks	
MSL	1	

Specifications	
Capacitance	22 uF
Measurement Condition	120 Hz 0.5Vrms
Capacitance Tolerance	10%
Voltage DC	10 VDC
Dielectric Withstanding Voltage	25 VDC
Temperature Range	-55/+125°C
Temperature Coefficient	X7R
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	15%, 120Hz 0.5Vrms
Dissipation Factor	10% 120 Hz 0.5Vrms
Aging Rate	3% Loss/Decade Hour: Referee Time is 1000 Hours
Insulation Resistance	4.5 MOhms

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

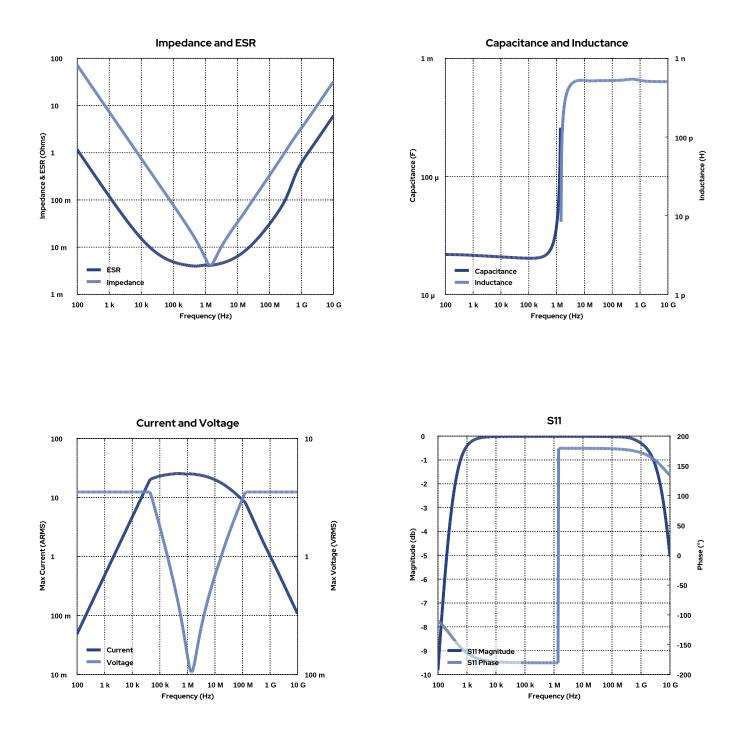


C1210C226K8RALTU Aliases (C1210C226K8RAL7800)

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## Simulations

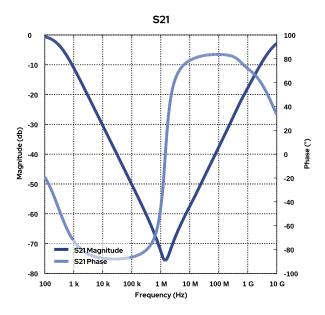
For the complete simulation environment please visit K-SIM.

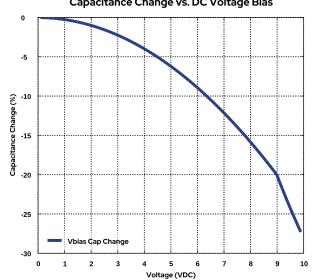




C1210C226K8RALTU Aliases (C1210C226K8RAL7800)

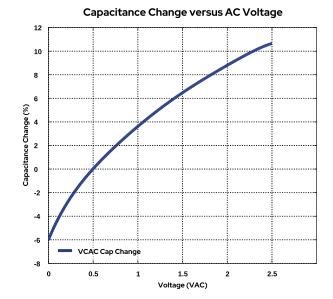
SMD Comm X7R SnPb, Ceramic, 22 uF, 10%, 10 VDC, X7R, SMD, MLCC, Temperature Stable, SnPb Termination, 1210





Capacitance Change versus Temperature 2 0 Capacitance Change (%) 9. b. b. c. -8 Temp Çap Change -10 -60 -40 -20 0 20 40 60 80 100 120 140

Temperature (C)



Capacitance Change vs. DC Voltage Bias





## Aliases (C1210C226K8RAL7800)

SMD Comm X7R SnPb, Ceramic, 22 uF, 10%, 10 VDC, X7R, SMD, MLCC, Temperature Stable, SnPb Termination, 1210

## 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.