



SMD Comm X7R HV, Ceramic, 0.22 uF, 10%, 630 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 2220, 3.5 mm



General Information		
Series	SMD Comm X7R HV	
Style	SMD Chip	
Description	SMD, MLCC, High Voltage, Temperature Stable	
Features	High Voltage	
RoHS	Yes	
Termination	Tin	
Marking	No	
AEC-Q200	No	
Typical Component Weight	230 mg	
Shelf Life	78 Weeks	
MSL	1	

0.22 uF

454.5 MOhms

Dimensions	
Chip Size	2220
L	5.7mm +/-0.4mm
W	5mm +/-0.4mm
Т	1.6mm +/-0.20mm
S	3.5mm MIN
В	0.6mm +/-0.35mm

L	5.7mm +/-0.4mm	Measurement Condition	1 kHz 1.0Vrms
W	5mm +/-0.4mm	Tolerance	10%
Т	1.6mm +/-0.20mm	Voltage DC	630 VDC
S	3.5mm MIN	Dielectric Withstanding Voltage	945 VDC
В	0.6mm +/-0.35mm	Temperature Range	-55/+125°C
		Temp. Coefficient	X7R
Packaging Specifications		Capacitance Change with	15%, 1kHz 1.0Vrms
Packaging	T&R, 330mm, Plastic Tape	Reference to +25°C and 0 VDC Applied (TCC)	
Packaging Quantity	4000	Dissipation Factor	2.5% 1 kHz 1.0Vrms
		Aging Rate	3% Loss/Decade Hour: Referee Time is 1000 Hours

Insulation Resistance

Specifications

Capacitance

we specifically disclaim - any warranty concerning suitability for a specific cus	of typical operating conditions for such applications, but are not intended to constitute - and stomer application or use. This Information is intended for use only by customers who have the cir application. Any technical advice inferred from this Information or otherwise provided by us bligation or liability for the advice given or results obtained.

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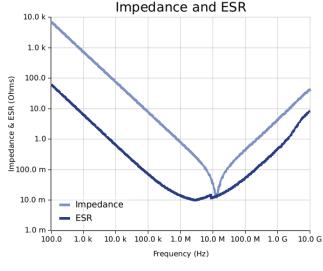


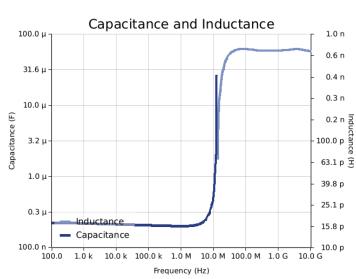


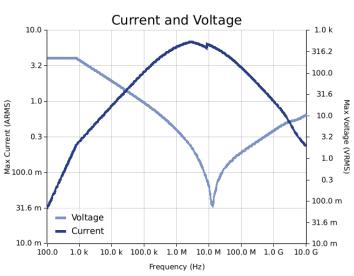
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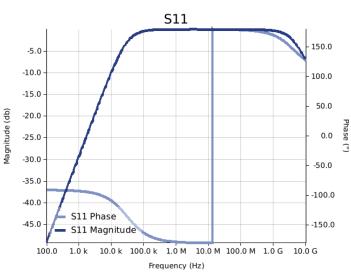
## **Simulations**

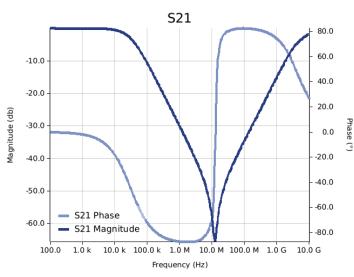
For the complete simulation environment please visit K-SIM.

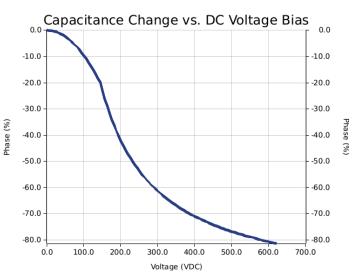










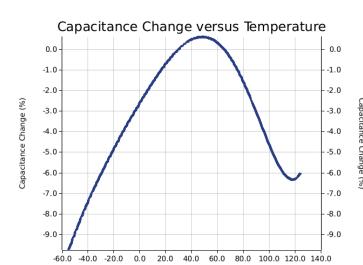


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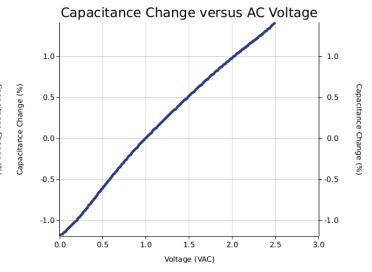


## C2220C224KBRAC7210

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Temperature (C)



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## 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 used for ripple Ripple Currenty votage vs. rrequency plots is unleast at an interact 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.

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