

C1206F105K4RAC7210

SMD Comm X7R FO, Ceramic, 1 uF, 10%, 16 VDC, X7R, SMD, MLCC, Open Mode, Temperature Stable, 1206, 1.5 mm



Click here for the 3D model.

General Information		
Series	SMD Comm X7R FO	
Style	SMD Chip	
Description	SMD, MLCC, Open Mode, Temperature Stable	
Features	Open Mode, Temperature Stable	
RoHS	Yes	
Termination	Tin	
Marking	No	
AEC-Q200	No	
Typical Component Weight	55 mg	
Shelf Life	78 Weeks	
MSL	1	

		Specifications	
1206		Capacitance	1uF
3.2mm +/-0.2mm		Measurement Condition	1 kHz 1.0Vrms
1.6mm +/-0.2mm		Tolerance	10%
1.6mm +/-0.25mm		Voltage DC	16 VDC
1.5mm MIN		Dielectric Withstanding Voltage	40 VDC
0.5mm +/-0.25mm		Temperature Range	-55/+125°C
		Temp. Coefficient	X7R
		Capacitance Change with	15%, 1kHz 1.0Vrms
T&R, 330mm, Plastic Tap	e	Reference to +25°C and 0 VDC Applied (TCC)	
8000		Dissipation Factor	3.5% 1 kHz 1.0Vrms

Aging Rate

Insulation Resistance

Dimensions Chip Size L W Т s В

Packaging Specifications Packaging

Packaging Quantity

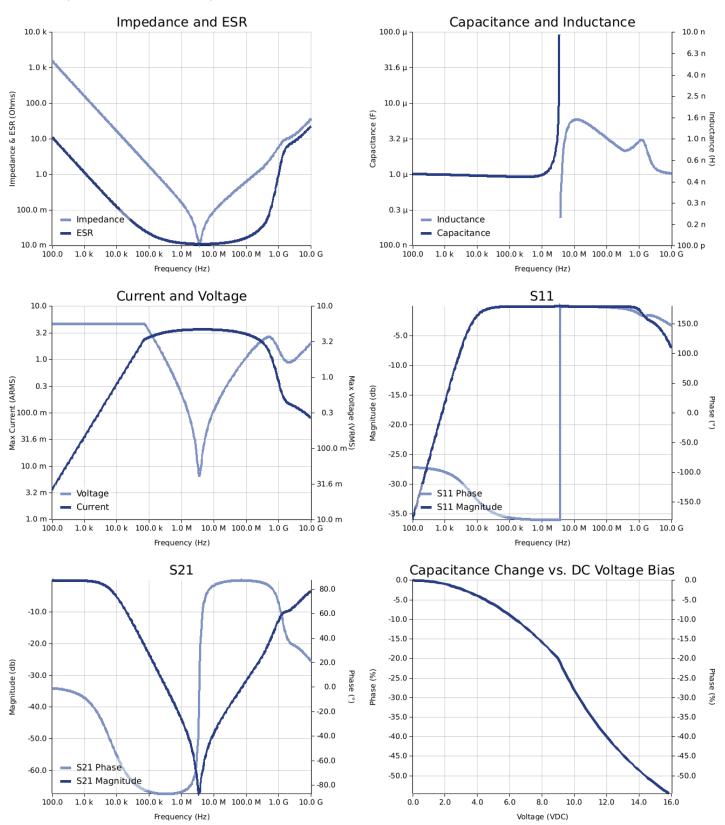
3% Loss/Decade Hour: Referee Time is 1000 Hours

500 MOhms



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 used for hipple klipple current younge vs. requericy plots is the ESR at an bient 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 and the part of the parts of the part of the
- 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.