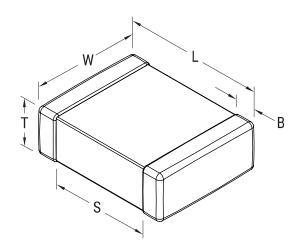


## C0805Y472K2RACTU

Aliases (C0805Y472K2RAC7800) SMD Comm X7R FF, Ceramic, 4,700 pF, 10%, 200 VDC, X7R, SMD, MLCC, FF-CAP, Floating Electrode, 0805, 0.7 mm



Click here for the 3D model.

General Information		
Series	SMD Comm X7R FF	
Style	SMD Chip	
Description	SMD, MLCC, FF-CAP, Floating Electrode	
Features	FF-CAP, Floating Electrode	
RoHS	Yes	
Termination	Flexible Termination	
Marking	No	
AEC-Q200	No	
Typical Component Weight	13 mg	
Shelf Life	78 Weeks	
MSL	1	

	Specifications	
0805	Capacitance	4,700 pF
2mm +/-0.3mm	Measurement Condition	1 kHz 1.0Vrms
1.25mm +/-0.3mm	Tolerance	10%
0.78mm +/-0.20mm	Voltage DC	200 VDC
0.7mm MIN	Dielectric Withstanding Voltage	500 VDC
0.5mm +/-0.25mm	Temperature Range	-55/+125°C
	Temp. Coefficient	X7R
	Capacitance Change with	15%, 1kHz 1.0Vrms
T&R, 180mm, Plastic Tape	Reference to +25°Č and 0 VDC Applied (TCC)	
4000	Dissipation Factor	2.5% 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

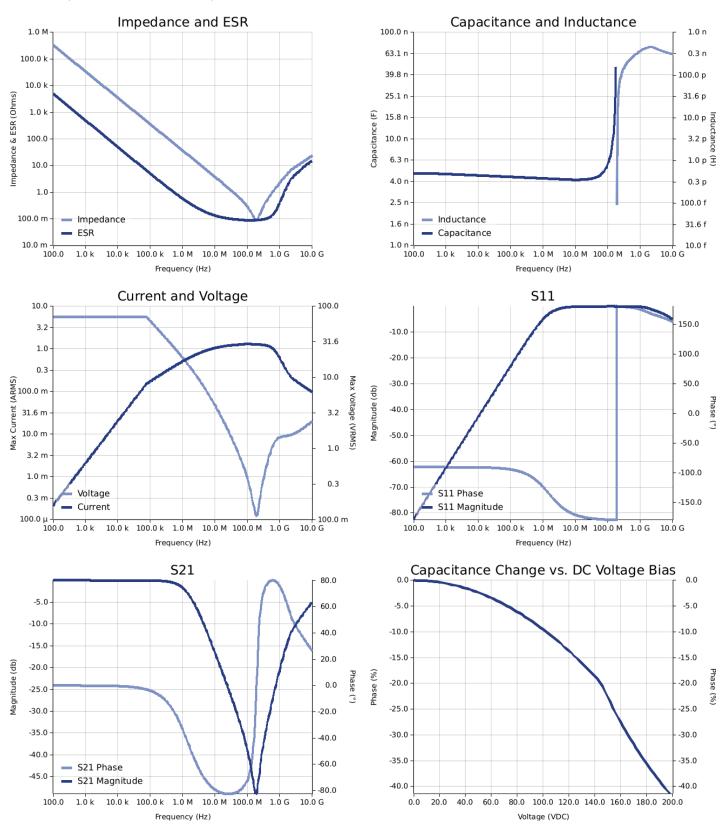
100 GOhms



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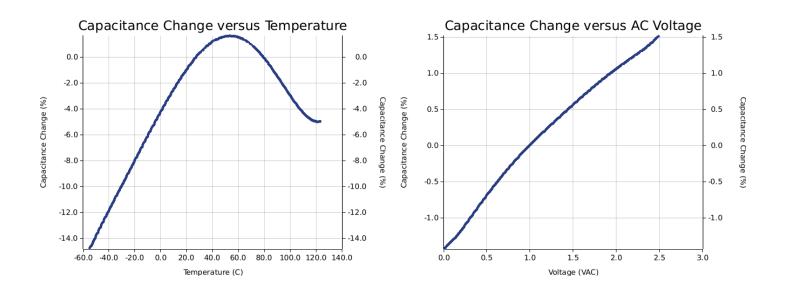
## Simulations

For the complete simulation environment please visit K-SIM.





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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 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 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.