

C2225C473JFRACTU

Aliases (C2225C473JFRAC7800) SMD Comm X7R HV, Ceramic, 0.047 uF, 5%, 1,500 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 2225, 3.2 mm



Click here for the 3D model.

	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	430 mg
	Shelf Life	78 Weeks
	MSL	1

Specifications	
Capacitance	0.047 uF
Measurement Condition	1 kHz 1.0Vrms
Tolerance	5%
Voltage DC	1500 VDC
Dielectric Withstanding Voltage	1,800 VDC
Temperature Range	-55/+125°C
Temp. 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	21.2766 GOhms

 Dimensions

 Chip Size
 2225

 L
 5.6mm +/-0.4mm

 W
 6.4mm +/-0.4mm

 T
 1.6mm +/-0.20mm

 S
 3.2mm MIN

 B
 0.6mm +/-0.35mm

## Packaging Specifications

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

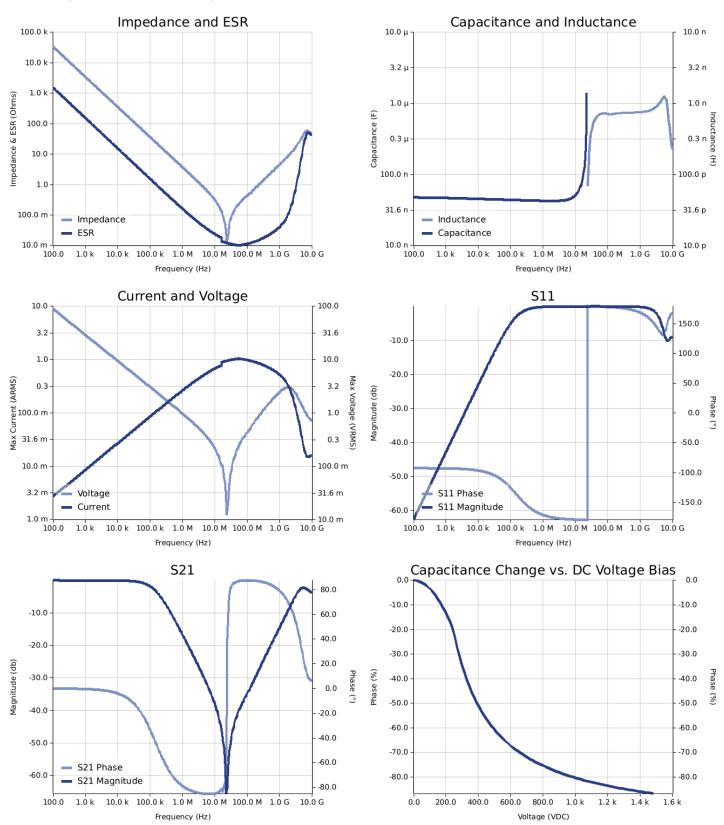
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## Simulations

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 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.