

## C1206X103J5RACTU

Aliases (C1206X103J5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 5%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1206, 1.5 mm



Click here for the 3D model.

General Information	
Series	SMD Comm X7R Flex
Style	SMD Chip
Description	SMD, MLCC, FT-CAP, Temperature Stable
Features	FT-CAP, Temperature Stable
RoHS	Yes
Termination	Flexible Termination
Marking	No
AEC-Q200	No
Typical Component Weight	17 mg
Shelf Life	78 Weeks
MSI	1

Dimensions		Specificatio
Chip Size	1206	Capacitance
L	3.3mm +/-0.4mm	Measureme
W	1.6mm +/-0.35mm	Tolerance
т	0.78mm +/-0.20mm	Voltage DC
S	1.5mm MIN	Dielectric W
В	0.6mm +/-0.25mm	Temperatur
		Temp. Coef

Packaging Specifications	
Packaging	T&R, 180mm, Plastic Tape
Packaging Quantity	4000

Shelf Life	78 Weeks
MSL	1
Specifications	
Capacitance	0.01 uF
Measurement Condition	1 kHz 1.0Vrms
Tolerance	5%
Voltage DC	50 VDC
Dielectric Withstanding Voltage	125 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

3% Loss/Decade Hour: Referee

Time is 1000 Hours

100 GOhms

Insulation Resistance

Aging Rate

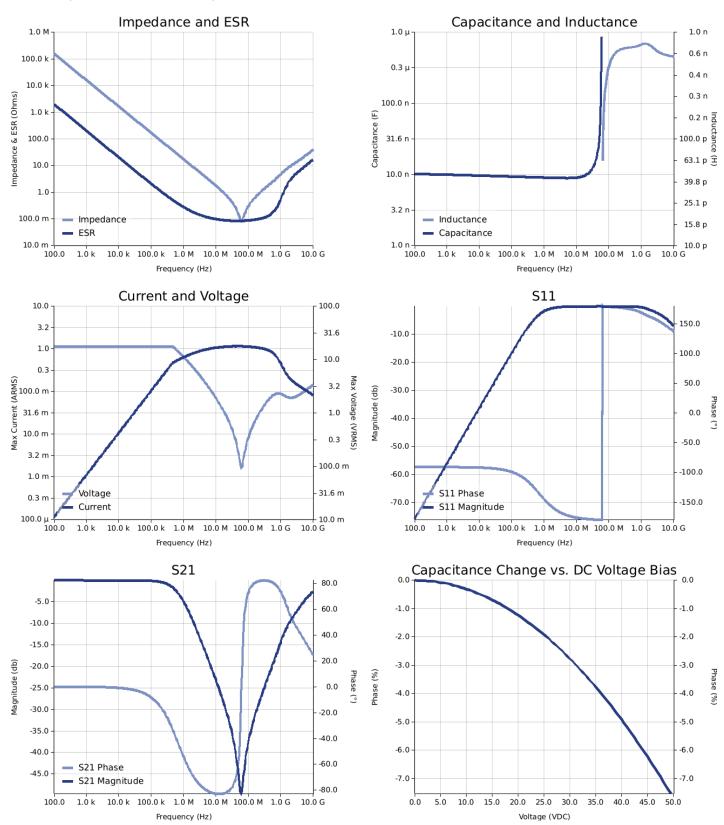
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is 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.



C1206X103J5RACTU Aliases (C1206X103J5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 5%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1206, 1.5 mm

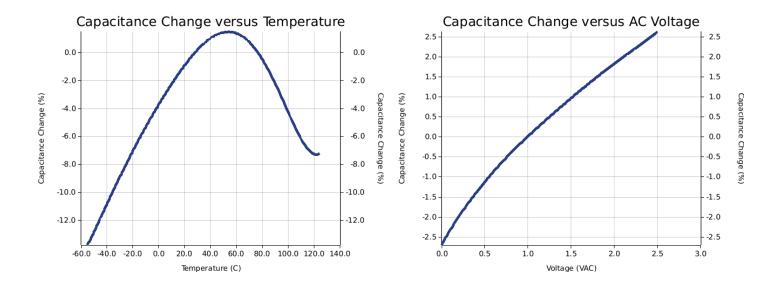
## Simulations

For the complete simulation environment please visit K-SIM.





C1206X103J5RACTU Aliases (C1206X103J5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 5%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1206, 1.5 mm





Aliases (C1206X103J5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 5%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1206, 1.5 mm

## 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/ voltage vs. requericy plots is the ESR at an originatine.
  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 applied to reach previous the barrent of the mean statement of the mean statement of the mean statement of the mean statement of the statement of the statement of the mean statement of the statement 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.

All Information given herein is believed to be accurate and reliable, but is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. 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.

If you have any questions please contact K-SIM.