

C1808X102KZRACTU

Aliases (C1808X102KZRAC7800) SMD Comm X7R HV Flex, Ceramic, 1000 pF, 10%, 2500 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1808



Click here for the 3D model.

General Information		
Series	SMD Comm X7R HV Flex	
Style	SMD Chip	
Description	SMD, MLCC, FT-CAP, Temperature Stable	
Features	FT-CAP, Temperature Stable	
RoHS	Yes	
Termination	Flexible Termination	
Marking	false	
AEC-Q200	No	
Typical Component Weight	100 mg	
Shelf Life	78 Weeks	
MSL	1	

	Specifications	
1808	Capacitance	1000 pF
4.7mm +/-0.5mm	Measurement Condition	1 kHz 1.0Vrms
2mm +/-0.2mm	Capacitance Tolerance	10%
2mm +/-0.15mm	Voltage DC	2500 VDC
2.9mm MIN	Dielectric Withstanding Voltage	3000 VDC
0.7mm +/-0.35mm	Temperature Range	-55/+125°C
	Temperature Coefficient	X7R
	Capacitance Change with	15%, 1kHz 1.0Vrms
T&R, 180mm, Plastic Tape	Reference to +25°C and 0 VDC Applied (TCC)	
1000	Dissipation Factor	2.5%1 kHz 1.0Vrms

Aging Rate

Insulation Resistance

Packaging Specifications Packaging Packaging Quantity

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.

3% Loss/Decade Hour: Referee

Time is 1000 Hours

100 GOhms

Dimensions Chip Size

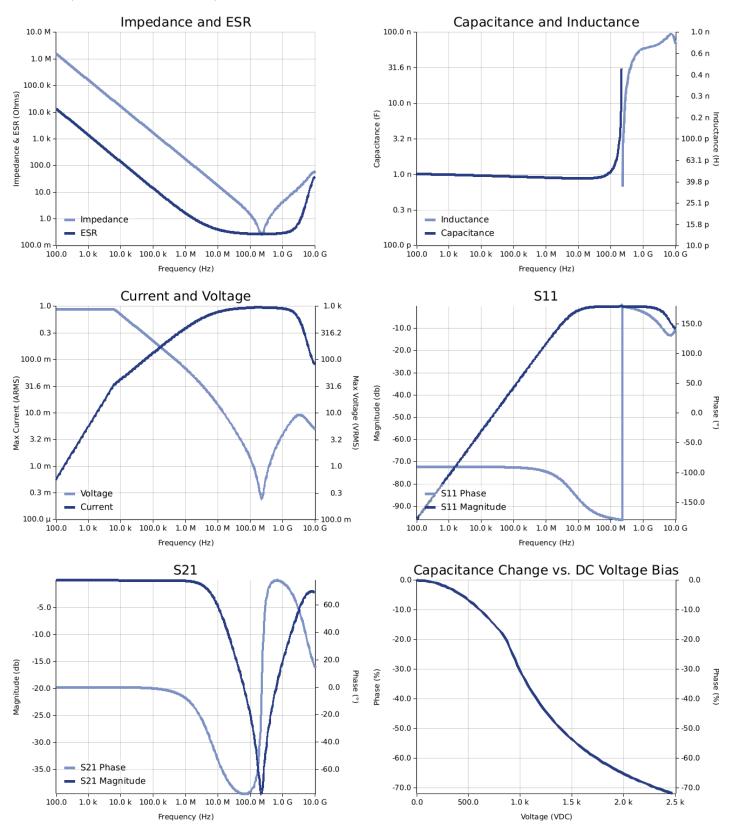
L W Т s в



C1808X102KZRACTU Aliases (C1808X102KZRAC7800) SMD Comm X7R HV Flex, Ceramic, 1000 pF, 10%, 2500 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1808

Simulations

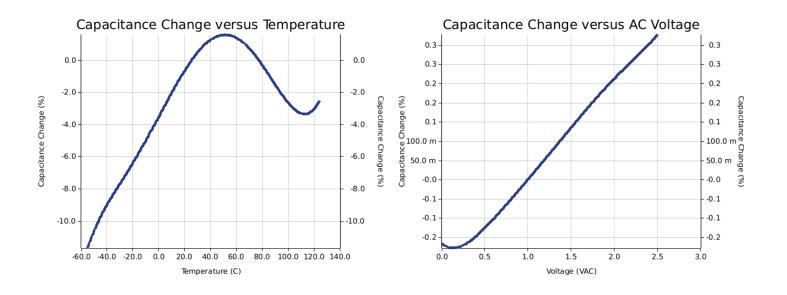
For the complete simulation environment please visit K-SIM.





C1808X102KZRACTU

Aliases (C1808X102KZRAC7800) SMD Comm X7R HV Flex, Ceramic, 1000 pF, 10%, 2500 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1808





C1808X102KZRACTU

Aliases (C1808X102KZRAC7800) SMD Comm X7R HV Flex, Ceramic, 1000 pF, 10%, 2500 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1808

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 applied to reach previous the burger of the parts.
- 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.