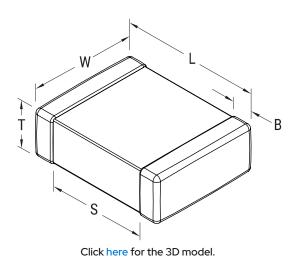


Aliases (C1812C104KDRAC7800)

SMD Comm X7R HV, Ceramic, 0.1 uF, 10%, 1,000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 2.3 mm, 1812/4532



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	185 mg
Shelf Life	78 Weeks
MSL	1

0.1 uF

1 kHz 1.0Vrms

Dimensions	
L	4.5mm +/-0.3mm
W	3.2mm +/-0.3mm
Т	1.7mm +/-0.15mm
S	2.3mm MIN
В	0.6mm +/-0.35mm
Case Code (EIA / mm)	1812 / 4532

Т	1.7mm +/-0.15mm	
S	2.3mm MIN	
В	0.6mm +/-0.35mm	
Case Code (EIA / mm)	1812 / 4532	
Packaging Specifications		

Т	1.7mm +/-0.15mm	Tolerance	10%
S	2.3mm MIN	Voltage DC	1000 VDC
В	0.6mm +/-0.35mm	Dielectric Withstanding Voltage	1,200 VDC
Case Code (EIA / mm)	1812 / 4532	Temperature Range	-55/+125°C
		Temp. Coefficient	X7R
Packaging Specifications		Capacitance Change with	15%, 1kHz 1.0Vrms
Packaging	T&R, 180mm, Plastic Tape	Reference to +25°C and 0 VDC Applied (TCC)	
Packaging Quantity 1000	Dissipation Factor	2.5% 1 kHz 1.0 Vrms	
		Aging Rate	3% Loss/Decade Hour: Referee Time is 1000 Hours

**Specifications** 

Measurement Condition

Capacitance

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.

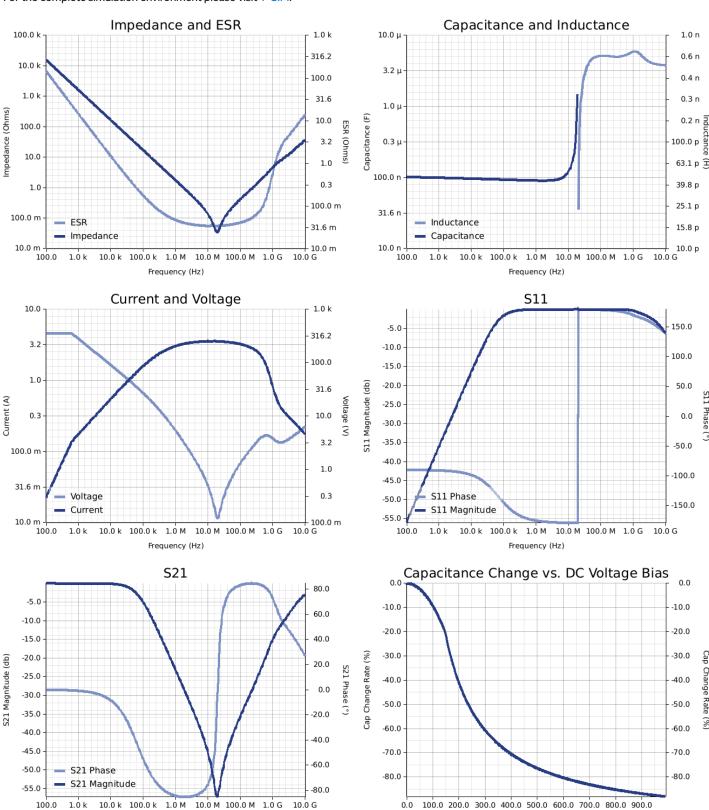
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Aliases (C1812C104KDRAC7800) SMD Comm X7R HV, Ceramic, 0.1 uF, 10%, 1,000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 2.3 mm, 1812 / 4532

### **Simulations**

For the complete simulation environment please visit Y-SIM.

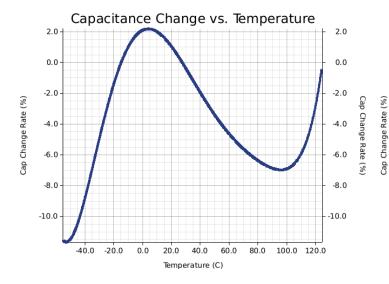


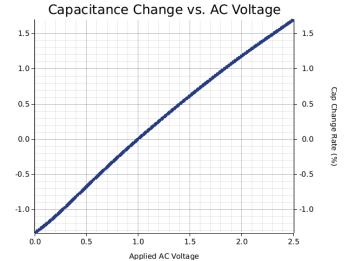
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Frequency (Hz)



Aliases (C1812C104KDRAC7800) SMD Comm X7R HV, Ceramic, 0.1 uF, 10%, 1,000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 2.3 mm, 1812 / 4532





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Aliases (C1812C104KDRAC7800) SMD Comm X7R HV, Ceramic, 0.1 uF, 10%, 1,000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 2.3 mm, 1812 / 4532

#### 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 in the "Temperature Rise vs. Ripple Current" plots is the ESR at ambient 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
- 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.

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