

C1812C104J5RACAUTO

SMD Auto X7R, Ceramic, 0.1 uF, 5%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Automotive Grade, 1812



Click here for the 3D model.

Dimensions		
Chip Size	1812	
L	4.5mm +/-0.3mm	
W	3.2mm +/-0.3mm	
Т	1mm +/-0.10mm	
В	0.6mm +/-0.35mm	

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

Series SMD Auto X7R Style SMD Chip Description SMD, MLCC, Temperature Stable, Automotive Grade Features Temperature Stable, Automotive Grade RoHS Yes Termination Tin Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 95 mg Shelf Life 78 Weeks	General Information	
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RoHS Yes Termination Tin Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 95 mg	Description	
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Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 95 mg	RoHS	Yes
Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 95 mg	Termination	Tin
AEC-Q200 Yes Component Weight 95 mg	Marking	No
Component 95 mg Weight	Qualifications	AEC-Q200
Weight 95 mg	AEC-Q200	Yes
Shelf Life 78 Weeks		95 mg
	Shelf Life	78 Weeks
MSL 1	MSL	1

Specifications	
Capacitance	0.1 uF
Measurement Condition	1 kHz 1.0Vrms
Capacitance Tolerance	5%
Voltage DC	50 VDC
Dielectric Withstanding Voltage	125 VDC
Temperature Range	-55/+125°C
Temperature Coefficient	X7R
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	15%, 1kHz 1.0Vrms
Dissipation Factor	2.5% 1 kHz 1.0Vrms
Aging Rate	3% Loss/Decade Hour: Referee Time is 1000 Hours
Insulation Resistance	10 GOhms

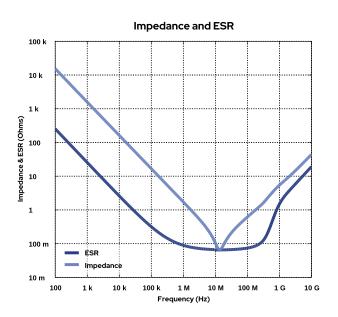
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

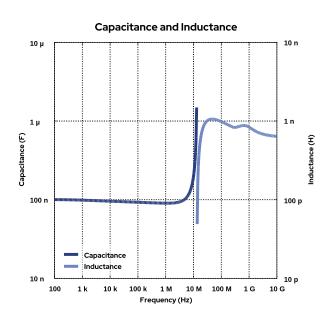


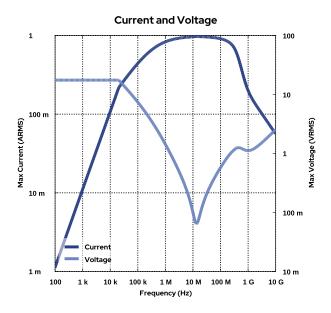
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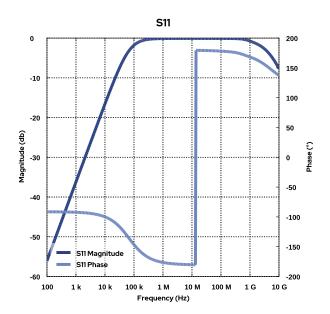
Simulations

For the complete simulation environment please visit K-SIM.





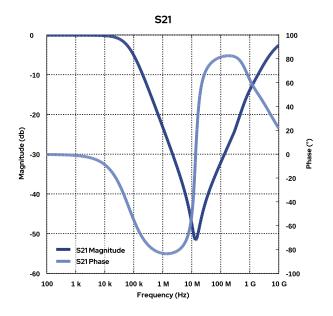


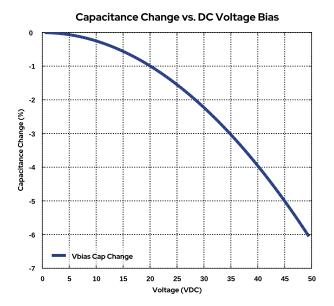




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These are simulations.

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 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
- 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.

单击下面可查看定价,库存,交付和生命周期等信息

>>KEMET(基美)