

### C0402C221J5GACAUTO

SMD Auto COG, Ceramic, 220 pF, 5%, 50 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Automotive Grade, 0402



Click here for the 3D model.

Dimensions	
Chip Size	0402
L	1mm +/-0.05mm
W	0.5mm +/-0.05mm
Т	0.5mm +/-0.05mm
S	0.3mm MIN
В	0.3mm +/-0.1mm

Packaging Specifications	
Packaging	T&R, 180mm, Paper Tape
Packaging Quantity	10000

Series SMD Auto COG  Style SMD Chip  Description SMD, MLCC, Ultra-Stable, Low Loss, Automotive Grade  Features Ultra-Stable, Low Loss, Automotive Grade  RoHS Yes  Termination Tin  Marking No  Qualifications AEC-Q200  AEC-Q200 Yes  Component Weight 1060 ug	General Information	
Description  SMD, MLCC, Ultra-Stable, Low Loss, Automotive Grade  Features  Ultra-Stable, Low Loss, Automotive Grade  RoHS  Yes  Termination  Tin  Marking  No  Qualifications  AEC-Q200  AEC-Q200  Yes  Component  1060 up	Series	SMD Auto COG
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Component 1060 ug	Qualifications	AEC-Q200
	AEC-Q200	Yes
···	Component Weight	1060 ug
Shelf Life 78 Weeks	Shelf Life	78 Weeks
MSL 1	MSL	1

Specifications	
Capacitance	220 pF
Measurement Condition	1 MHz 1.0Vrms
Capacitance Tolerance	5%
Voltage DC	50 VDC
Dielectric Withstanding Voltage	125 VDC
Temperature Range	-55/+125°C
Temperature Coefficient	COG
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	30 ppm/C, 1MegaHz 1.0Vrms
Dissipation Factor	0.1% 1 MHz 1.0Vrms
Aging Rate	0% Loss/Decade Hour
Insulation Resistance	100 GOhms

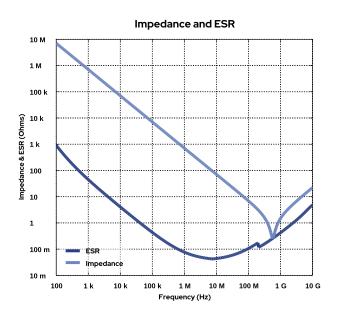
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

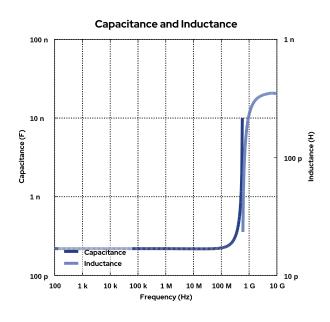


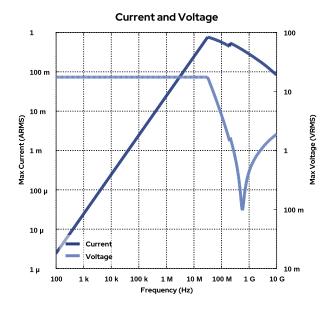
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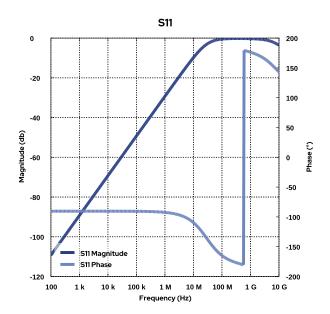
## **Simulations**

For the complete simulation environment please visit K-SIM.





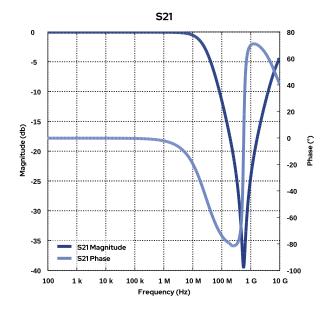






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#### These are simulations.

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.

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# >>KEMET(基美)