

SMD Auto COG Flex, Ceramic, 220 pF, 1%, 100 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 0805



Click here for the 3D model.

Dimensions	,
Chip Size	0805
L	2mm +/-0.3mm
W	1.25mm +/-0.3mm
Т	0.78mm +/-0.20mm
S	0.75mm MIN
В	0.5mm +/-0.25mm

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

Series SMD Auto COG Flex  Style SMD Chip  Description SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade  Features FT-CAP, Ultra-Stable, Automotive Grade  RoHS Yes  Termination Flexible Termination  Marking No  Qualifications AEC-Q200  AEC-Q200 Yes  Component Weight 11 mg  Shelf Life 78 Weeks	General Information	
SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade  Features FT-CAP, Ultra-Stable, Automotive Grade  RoHS Yes  Termination Flexible Termination  Marking No  Qualifications AEC-Q200  AEC-Q200 Yes  Component Weight 11 mg  Shelf Life 78 Weeks	Series	SMD Auto COG Flex
Features FT-CAP, Ultra-Stable, Automotive Grade RoHS Yes Termination Flexible Termination Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 11 mg Shelf Life 78 Weeks	Style	SMD Chip
RoHS Yes Termination Flexible Termination Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 11 mg Shelf Life 78 Weeks	Description	
Termination Flexible Termination  Marking No  Qualifications AEC-Q200  AEC-Q200 Yes  Component Weight 11 mg  Shelf Life 78 Weeks	Features	FT-CAP, Ultra-Stable, Automotive Grade
Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 11 mg Shelf Life 78 Weeks	RoHS	Yes
Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 11 mg Shelf Life 78 Weeks	Termination	Flexible Termination
AEC-Q200 Yes  Component Weight 11 mg  Shelf Life 78 Weeks	Marking	No
Component Weight 11 mg Shelf Life 78 Weeks	Qualifications	AEC-Q200
Weight II mg Shelf Life 78 Weeks	AEC-Q200	Yes
		11 mg
	Shelf Life	78 Weeks
MSL 1	MSL	1

Specifications	,
Capacitance	220 pF
Measurement Condition	1 MHz 1.0Vrms
Capacitance Tolerance	1%
Voltage DC	100 VDC
Dielectric Withstanding Voltage	250 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

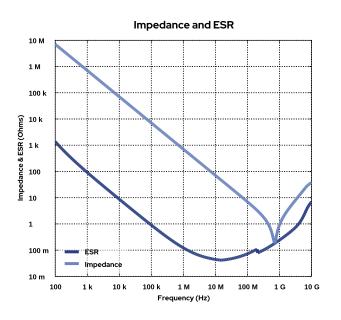
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

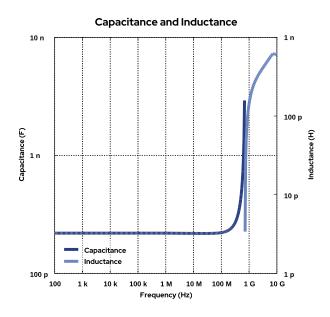


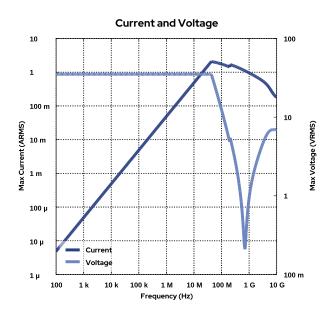
SMD Auto COG Flex, Ceramic, 220 pF, 1%, 100 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 0805

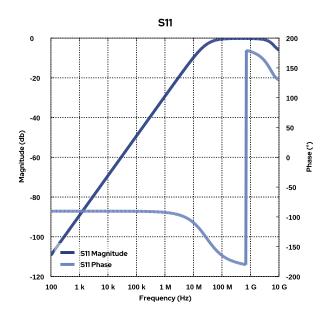
# **Simulations**

For the complete simulation environment please visit K-SIM.



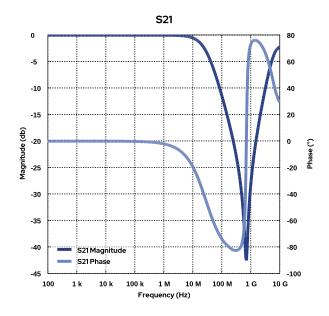








SMD Auto COG Flex, Ceramic, 220 pF, 1%, 100 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 0805





SMD Auto COG Flex, Ceramic, 220 pF, 1%, 100 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 0805

#### 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.

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.