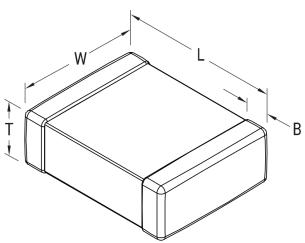


KC-LINK Auto COG, Ceramic, 0.033 uF, 1%, 500 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 2220



Click here for the 3D model.

Dimensions	
Chip Size	2220
L	6.1mm +/-0.75mm
W	5mm +/-0.4mm
Т	2.5mm +/-0.20mm
В	0.7mm +/-0.35mm

Packaging Specifications		
Packaging	T&R, 180mm, Plastic Tape	
Packaging Quantity	500	

Series KC-LINK Auto COG 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 320 mg Shelf Life 78 Weeks	General Information		
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 320 mg	Series	KC-LINK Auto COG	
Features FT-CAP, Ultra-Stable, Automotive Grade RoHS Yes Termination Flexible Termination Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 320 mg	Style	SMD Chip	
RoHS Yes Termination Flexible Termination Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 320 mg	Description		
Termination Flexible Termination Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 320 mg	Features	FT-CAP, Ultra-Stable, Automotive Grade	
Marking No Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 320 mg	RoHS	Yes	
Qualifications AEC-Q200 AEC-Q200 Yes Component Weight 320 mg	Termination	Flexible Termination	
AEC-Q200 Yes Component Weight 320 mg	Marking	No	
Component 320 mg	Qualifications	AEC-Q200	
Weight 320 mg	AEC-Q200	Yes	
Shelf Life 78 Weeks		320 mg	
	Shelf Life	78 Weeks	
MSL 1	MSL	1	

Specifications	
Capacitance	0.033 uF
Measurement Condition	1 kHz 1.0Vrms
Capacitance Tolerance	1%
Voltage DC	500 VDC
Dielectric Withstanding Voltage	750 VDC
Temperature Range	-55/+150°C
Temperature Coefficient	COG
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	30 ppm/C, 1kHz 1.0Vrms
Dissipation Factor	0.1% 1 kHz 1.0Vrms
Aging Rate	0% Loss/Decade Hour
Insulation Resistance	30.303 GOhms

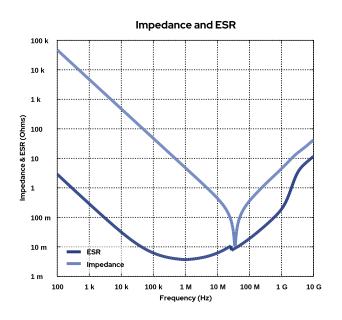
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

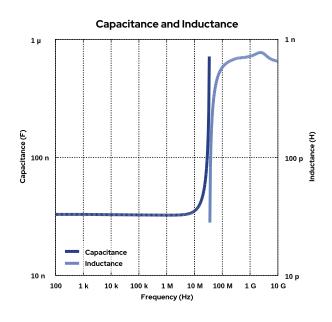


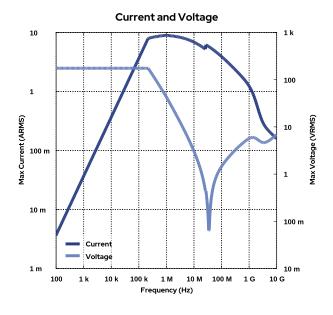
KC-LINK Auto COG, Ceramic, 0.033 uF, 1%, 500 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 2220

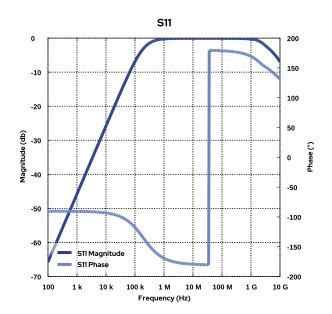
Simulations

For the complete simulation environment please visit K-SIM.



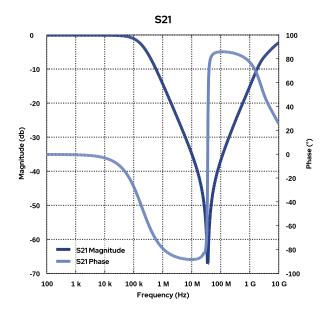








KC-LINK Auto COG, Ceramic, 0.033 uF, 1%, 500 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 2220





KC-LINK Auto COG, Ceramic, 0.033 uF, 1%, 500 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 2220

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.