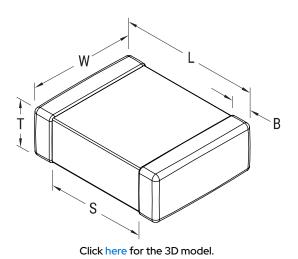




SMD Auto X7R Flex, Ceramic, 2.2 uF, 10%, 25 VDC, X7R, SMD, MLCC, FTCAP, Automotive Grade, 0805, 0.6 mm



General Information		
Series	SMD Auto X7R Flex	
Style	SMD Chip	
Description	SMD, MLCC, FT-CAP, Automotive Grade	
Features	FT-CAP, Automotive Grade	
RoHS	Yes	
Termination	Flexible Termination	
Marking	No	
Qualifications	AEC-Q200	
AEC-Q200	Yes	
Typical Component Weight	21 mg	
Shelf Life	78 Weeks	
MSL	1	

Dimensions	
Chip Size	0805
L	2mm +/-0.35mm
W	1.25mm +/-0.3mm
Т	1.25mm +/-0.3mm
S	0.6mm MIN
В	0.5mm +/-0.25mm
	,

W	1.25mm +/-0.3mm	
Т	1.25mm +/-0.3mm	
S	0.6mm MIN	
В	0.5mm +/-0.25mm	
Packaging Specifications		

Specifications		
Capacitance	2.2 uF	
Measurement Condition	1 kHz 1.0Vrms	
Tolerance	10%	
Voltage DC	25 VDC	
Dielectric Withstanding Voltage	62.5 VDC	
Temperature Range	-55/+125°C	
Temp. Coefficient	X7R	
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	15%, 1kHz 1.0Vrms	
Dissipation Factor	10% 1 kHz 1.0Vrms	
Aging Rate	3% Loss/Decade Hour: Referee Time is 48 Hours	
Insulation Resistance	45.5 MOhms	

Packaging	T&R, 180mm, Plastic Tape	Applied (TCC)
Packaging Quantity	2500	Dissipation Factor
		Aging Rate

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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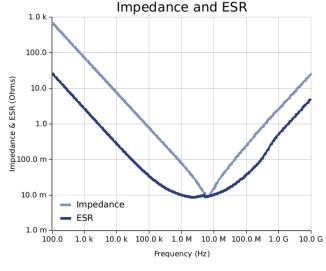


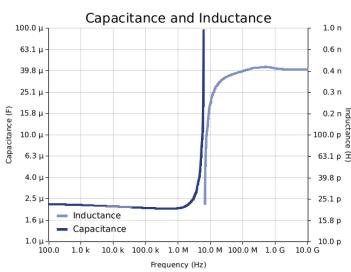


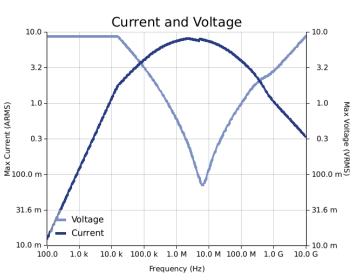
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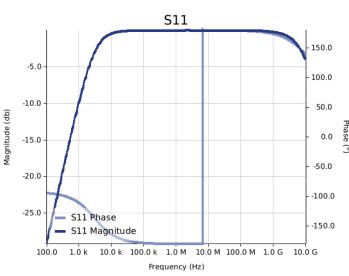
Simulations

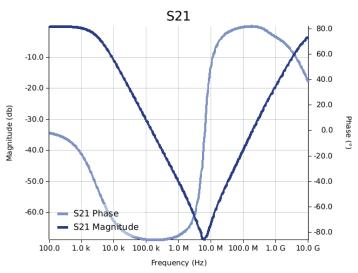
For the complete simulation environment please visit K-SIM.

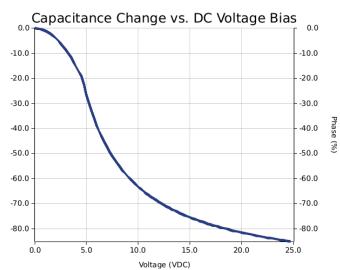












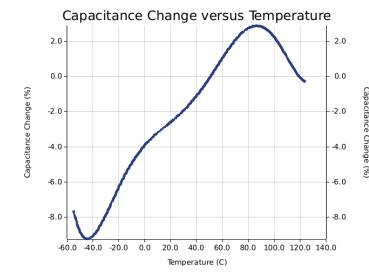
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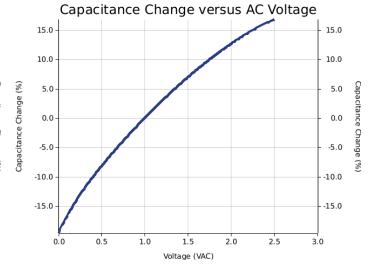
Phase (%)





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C0805X225K3RACAUTO

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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 used for ripple Ripple Currenty votage vs. rrequency plots is adjusted to each incremental temperature rise before the power and ripple current is calculated.
 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.

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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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