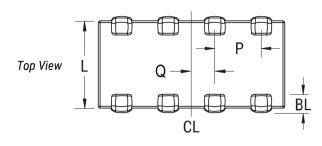
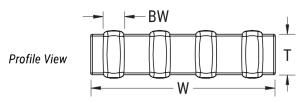


Not for New Design

Array Auto X7R Flex, Ceramic, 0.022 uF, 10%, 50 VDC, X7R, SMD, MLCC, Array, Flex Termination, Automotive Grade, 0612





Click here for the 3D model.

Dimensions		
L	1.6mm +/-0.2mm	
W	3.2mm +/-0.2mm	
Т	0.8mm +/-0.10mm	

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

General Information		
Series	Array Auto X7R Flex	
Style	SMD Array	
Description	SMD, MLCC, Array, Flex Termination, Automotive Grade	
Features	Automotive Grade	
RoHS	Yes	
Termination	Flexible Termination	
Qualifications	AEC-Q200	
AEC-Q200	Yes	
Chip Size	0612	
MSL	1	

Specifications	
Capacitance	0.022 uF
Capacitance Tolerance	10%
Voltage DC	50 VDC
Temperature Range	-55/+125°C
Temperature Coefficient	X7R
Dissipation Factor	2.5% 1 kHz 1.0Vrms
Insulation Resistance	45.4545 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.

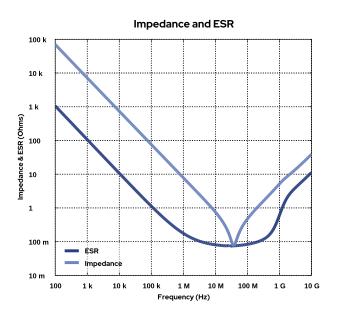


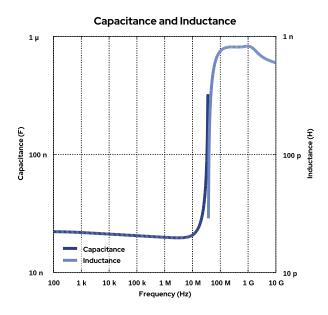
Not for New Design

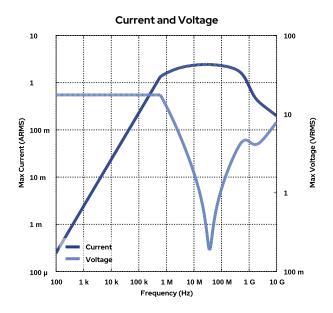
Array Auto X7R Flex, Ceramic, 0.022 uF, 10%, 50 VDC, X7R, SMD, MLCC, Array, Flex Termination, Automotive Grade, 0612

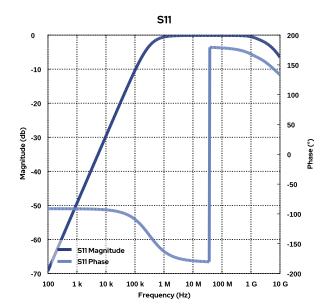
Simulations

For the complete simulation environment please visit K-SIM.





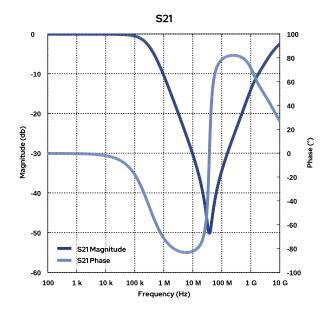


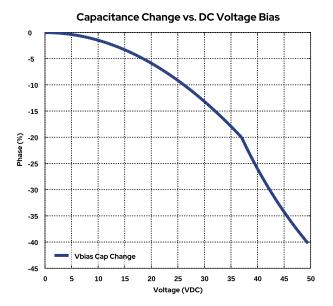




Not for New Design

Array Auto X7R Flex, Ceramic, 0.022 uF, 10%, 50 VDC, X7R, SMD, MLCC, Array, Flex Termination, Automotive Grade, 0612







Array Auto X7R Flex, Ceramic, 0.022 uF, 10%, 50 VDC, X7R, SMD, MLCC, Array, Flex Termination, Automotive Grade, 0612

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.