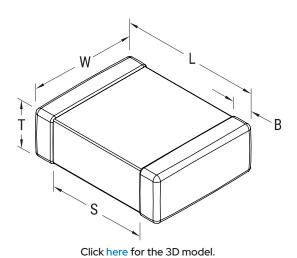




ESD SMD Comm X7R, Ceramic, 0.068 uF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Class II, 0805, 0.7 mm



General Information			
Series	ESD SMD Comm X7R		
Style	SMD Chip		
Description	SMD, MLCC, Temperature Stable, Electro Static Discharge, Class II		
Features	Temperature Stable, Class II		
RoHS	Yes		
Termination	Tin		
Marking	No		
AEC-Q200	No		
Typical Component Weight	16 mg		
Shelf Life	78 Weeks		
MSL	1		

0.068 uF

 $2.5\%\,1\,kHz\,1.0Vrms$

14.7059 GOhms

3% Loss/Decade Hour: Referee Time is 1000 Hours

Dimensions	
Chip Size	0805
L	2mm +/-0.2mm
W	1.25mm +/-0.2mm
Т	1mm +/-0.10mm
S	0.7mm MIN
В	0.5mm +/-0.25mm

		'		
	2mm +/-0.2mm	Measurement Condition	1 kHz 1.0Vrms	
	1.25mm +/-0.2mm	Tolerance	10%	
	1mm +/-0.10mm	Voltage DC	50 VDC	
	0.7mm MIN	ESD Level per AEC-Q200	25,000 V ESD Level	
	0.5mm +/-0.25mm	Dielectric Withstanding Voltage	125 VDC	
		Temperature Range	-55/+125°C	
	Temp. Coefficient	X7R		
	Bulk, Bag	Capacitance Change with	15%, 1kHz 1.0Vrms	
	1	Reference to +25°C and 0 VDC Applied (TCC)		

Dissipation Factor

Insulation Resistance

Aging Rate

Specifications

Capacitance

Packaging Specifications		
Packaging	Bulk, Bag	
Packaging Quantity	1	

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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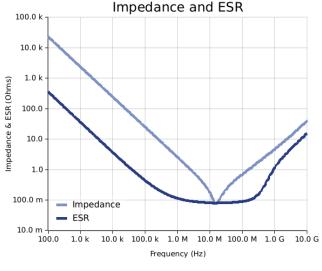


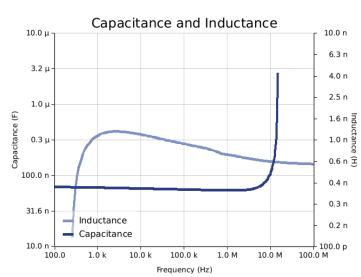


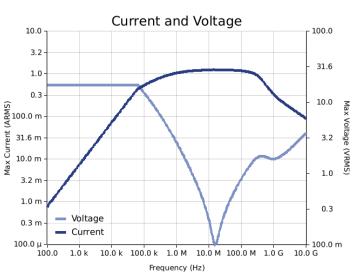
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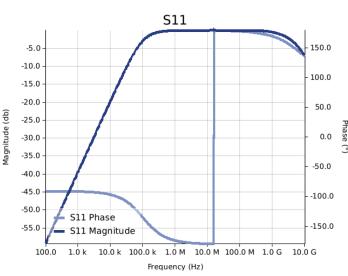
Simulations

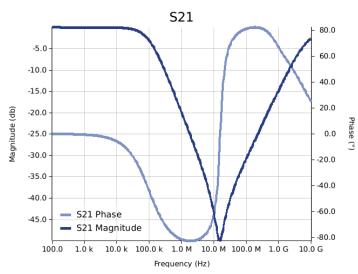
For the complete simulation environment please visit Y-SIM.

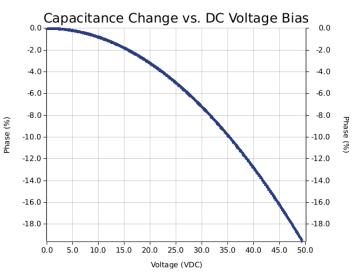












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C0805C683K5REC

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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 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 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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If you have any questions please contact K-SIM.

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