

C0603C225K4PACTU

Aliases (C0603C225K4PAC7867) SMD Comm X5R, Ceramic, 2.2 uF, 10%, 16 VDC, X5R, SMD, MLCC, Temperature Stable, Class II, 0603, 0.5 mm



General Information	
Series	SMD Comm X5R
Style	SMD Chip
Description	SMD, MLCC, Temperature Stable, Class II
Features	Temperature Stable, Class II
RoHS	Yes
Termination	Tin
Marking	No
AEC-Q200	No
Typical Component Weight	6.5 mg
Shelf Life	78 Weeks
MSL	1

Dimensions	
Chip Size	0603
L	1.6mm +/-0.15mm
W	0.8mm +/-0.15mm
Т	0.8mm +/-0.10mm
S	0.5mm MIN
В	0.35mm +/-0.15mm

L	1.0111111 +/ -0.15111111	Measurement Condition	TKHZ LOVIIIIS
W	0.8mm +/-0.15mm	Tolerance	10%
Т	0.8mm +/-0.10mm	Voltage DC	16 VDC
S	0.5mm MIN	Dielectric Withstanding Voltage	40 VDC
В	0.35mm +/-0.15mm	Temperature Range	-55/+85°C
		Temp. Coefficient	X5R
Packaging Specifications		Capacitance Change with	15%, 1kHz 0.5Vrms
Packaging	T&R, 180mm, Paper Tape	Reference to +25°C and 0 VDC Applied (TCC)	
Packaging Quantity	4000	Dissipation Factor	10% 1 kHz 1.0Vrms

Specifications	
Capacitance	2.2 uF
Measurement Condition	1 kHz 1.0Vrms
Tolerance	10%
Voltage DC	16 VDC
Dielectric Withstanding Voltage	40 VDC
Temperature Range	-55/+85°C
Temp. Coefficient	X5R
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	15%, 1kHz 0.5Vrms
Dissipation Factor	10% 1 kHz 1.0Vrms
Aging Rate	5% Loss/Decade Hour: Referee Time is 48 Hours
Insulation Resistance	45.5 MOhms

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
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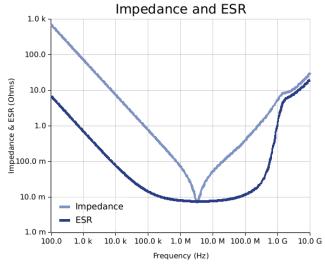


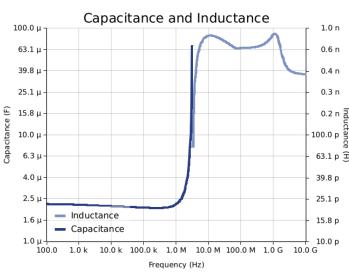
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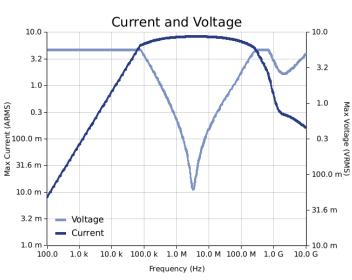
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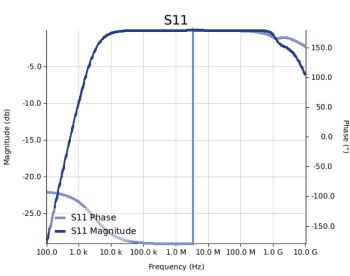
Simulations

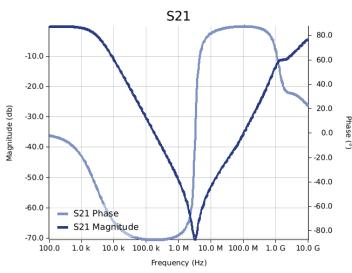
For the complete simulation environment please visit K-SIM.

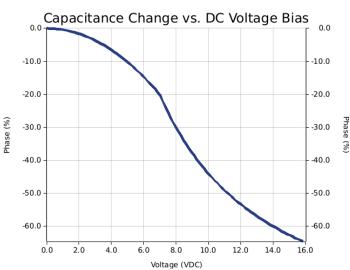












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These are simulations.

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 unleast at an interact 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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