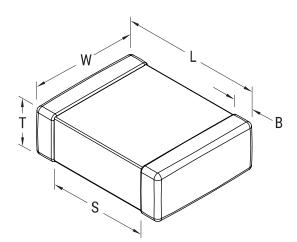


## C0402C106M7PACTU

Aliases (C0402C106M7PAC7867) SMD Comm X5R, Ceramic, 10 uF, 20%, 4 VDC, X5R, SMD, MLCC, Temperature Stable, Class II, 0402, 0.3 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	1.41 mg
Shelf Life	78 Weeks
MSL	1

	Specifications	
	Capacitance	10 uF
	Measurement Condition	1 kHz 0.5Vrms
	Tolerance	20%
	Voltage DC	4 VDC
	Dielectric Withstanding Voltage	10 VDC
	Temperature Range	-55/+85°C
	Temp. Coefficient	X5R
	Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	15%, 1kHz 0.2Vrms
	Dissipation Factor	10% 1 kHz 0.5Vrms
	Aging Rate	5% Loss/Decade Hour: Referee Time is 48 Hours
	Insulation Resistance	10 MOhms

Click here for the 3D model.

Dimensions	
Chip Size	0402
L	1mm +/-0.2mm
W	0.5mm +/-0.2mm
т	0.5mm +/-0.20mm
S	0.3mm MIN
В	0.3mm +/-0.1mm
T S	0.5mm +/-0.20mm 0.3mm MIN

## Packaging Specifications

Packaging Ta	F&R, 180mm, Paper Tape
Packaging Quantity 10	0000

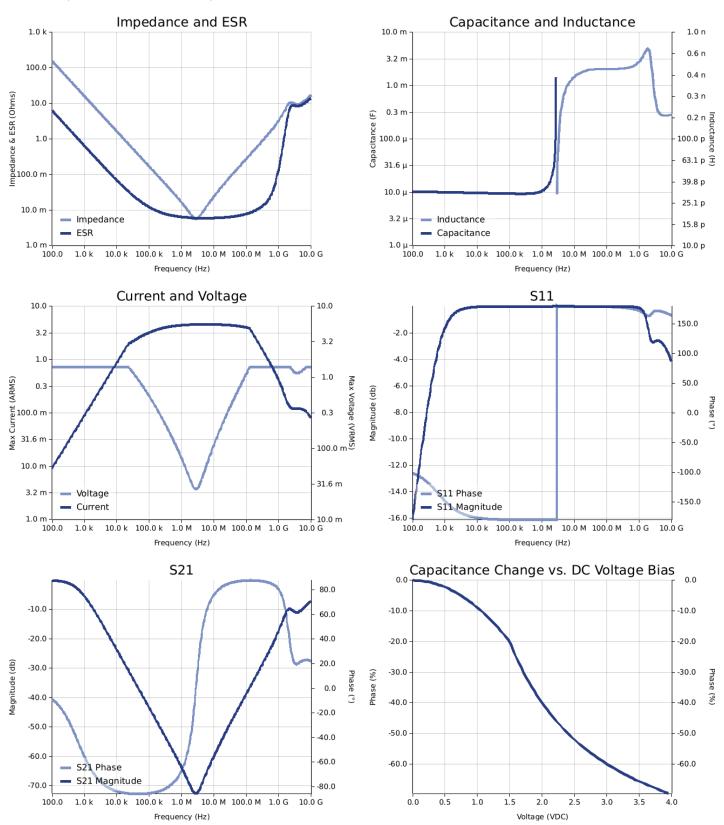
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CO402C106M7PACTU Aliases (C0402C106M7PAC7867) SMD Comm X5R, Ceramic, 10 uF, 20%, 4 VDC, X5R, SMD, MLCC, Temperature Stable, Class II, 0402, 0.3 mm

## Simulations

For the complete simulation environment please visit K-SIM.



Generated 04/30/2025



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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 hipple klipple current younge vs. requericy plots is the ESR at an bient 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 and the part of the parts of the part of the
- 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.