

C0402C270M8GACTU

Aliases (C0402C270M8GAC7867) SMD Comm COG, Ceramic, 27 pF, 20%, 10 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0402, 0.3 mm



Click here for the 3D model.

General Information	
Series	SMD Comm COG
Style	SMD Chip
Description	SMD, MLCC, Ultra-Stable, Low Loss, Class I
Features	Ultra-Stable, Low Loss, Class I
RoHS	Yes
Termination	Tin
Marking	No
AEC-Q200	No
Typical Component Weight	1.06 mg
Shelf Life	78 Weeks
MSL	1

Dimensions		Specification
Chip Size	0402	Capacitance
L	1mm +/-0.05mm	Measurement
W	0.5mm +/-0.05mm	Tolerance
т	0.5mm +/-0.05mm	Voltage DC
S	0.3mm MIN	Dielectric With
В	0.3mm +/-0.1mm	Temperature I
		Temp. Coeffic

Packaging Specifications	
Packaging	Т&

Packaging Quantity

> R, 180mm, Paper Tape 10000

Specifications	
Capacitance	27 pF
Measurement Condition	1 MHz 1.0Vrms
Tolerance	20%
Voltage DC	10 VDC
Dielectric Withstanding Voltage	25 VDC
Temperature Range	-55/+125°C
Temp. Coefficient	COG
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	30 ppm/C, 1MegaHz 1.0Vrms
Dissipation Factor	0.1% 1 MHz 1.0Vrms
Aging Rate	0% Loss/Decade Hour
Insulation Resistance	100 GOhms

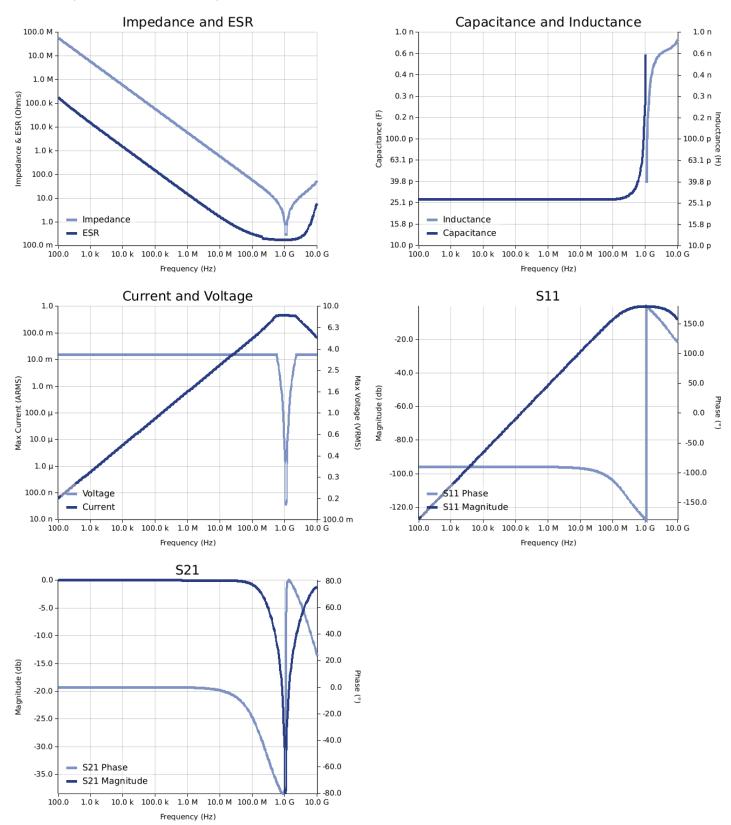
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CO402C270M8GACTU Aliases (C0402C270M8GAC7867) SMD Comm C0G, Ceramic, 27 pF, 20%, 10 VDC, C0G, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0402, 0.3 mm

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 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 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.