

C0603C100F1GACTU

Aliases (C0603C100F1GAC7867) SMD Comm COG, Ceramic, 10 pF, 1%, 100 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0603, 0.5 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	3.7 mg
Shelf Life	78 Weeks
MSL	1

10 pF

0% Loss/Decade Hour

100 GOhms

ons		Specifications
	0603	Capacitance
	1.6mm +/-0.15mm	Measurement Conditi
	0.8mm +/-0.15mm	Tolerance
	0.8mm +/-0.07mm	Voltage DC
	0.5mm MIN	Dielectric Withstandin
	0.35mm +/-0.15mm	Temperature Range
		Temp. Coefficient
g Specifications		Capacitance Change

ōmm	Measurement Condition	1 MHz 1.0Vrms
5mm	Tolerance	1%
)7mm	Voltage DC	100 VDC
	Dielectric Withstanding Voltage	250 VDC
.15mm	Temperature Range	-55/+125°C
	Temp. Coefficient	COG
Paper Tape	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

Insulation Resistance

L W т s в

Packagin

Dimensio Chip Size

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

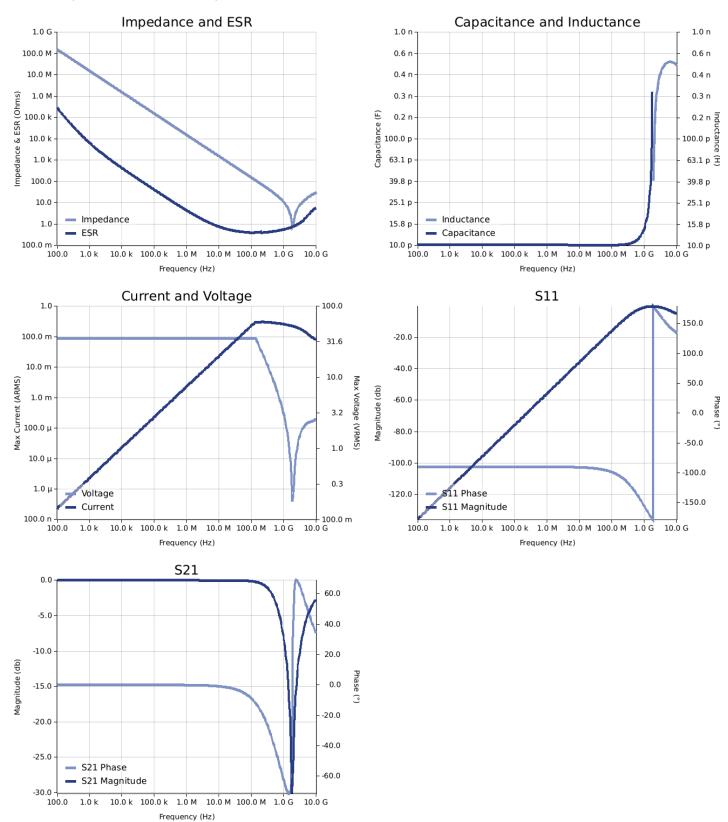
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Simulations

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 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.