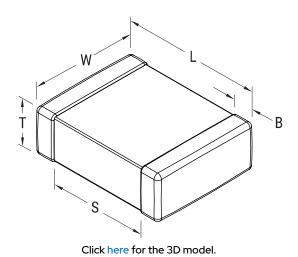


## C2220C102FCGACTU

Aliases (C2220C102FCGAC7800) SMD Comm COG HV, Ceramic, 1,000 pF, 1%, 500 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 2220, 3.5 mm



General Information			
Series	SMD Comm COG HV		
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	190 mg		
Shelf Life	78 Weeks		
MSL	1		

0.1% 1 MHz 1.0Vrms

100 GOhms

0% Loss/Decade Hour

	Specifications	
2220	Capacitance	1,000 pF
5.7mm +/-0.4mm	Measurement Condition	1 MHz 1.0Vrms
5mm +/-0.4mm	Tolerance	1%
1.4mm +/-0.15mm	Voltage DC	500 VDC
3.5mm MIN	Dielectric Withstanding Voltage	750 VDC
0.6mm +/-0.35mm	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
T&R, 180mm, Plastic Tape		
1000		

**Dissipation Factor** 

Insulation Resistance

Aging Rate

Chip Size L W т s в

## **Packaging Specifications** Packaging

Dimensions

Packaging Quantity 1000

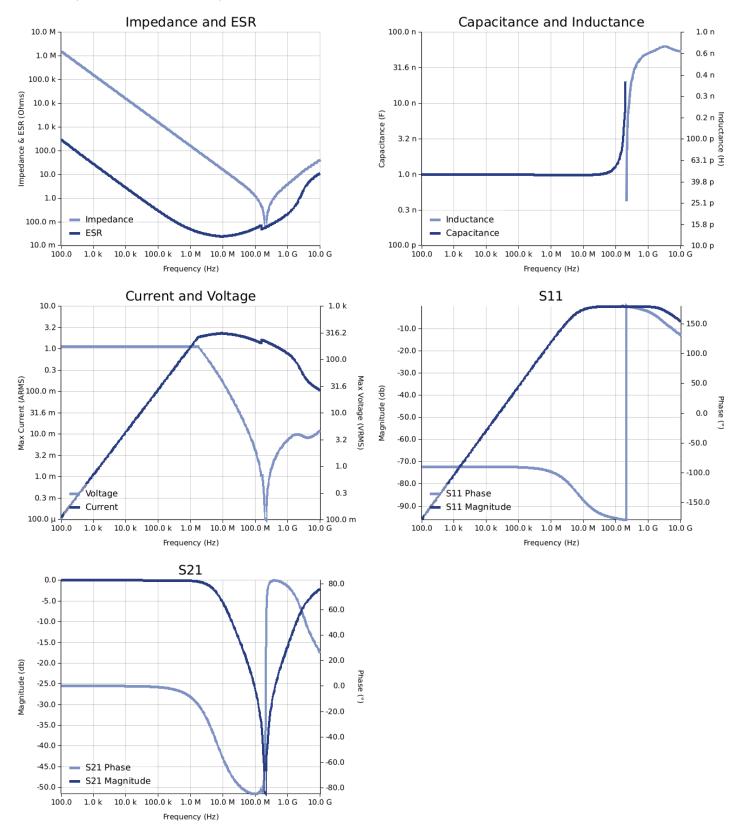
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and
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C2220C102FCGACTU Aliases (C2220C102FCGAC7800) SMD Comm C0G HV, Ceramic, 1,000 pF, 1%, 500 VDC, C0G, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 2220, 3.5 mm

## Simulations

For the complete simulation environment please visit K-SIM.





Ultra-Stable, Low Loss, Class I, 2220, 3.5 mm

## 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.