

# CKC21C512MEGACTU

Aliases (CKC21C512MEGAC7800) KC-LINK Comm COG, Ceramic, 5,100 pF, 20%, 1,200 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 2220, 3.5 mm



Click here for the 3D model.

General Information		
Series	KC-LINK 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	260 mg	
Shelf Life	78 Weeks	
MSL	1	

0% Loss/Decade Hour

100 GOhms

	Specifications	
0	Capacitance	5,100 pF
nm +/-0.4mm	Measurement Condition	1 kHz 1.0Vrms
n +/-0.4mm	Tolerance	20%
n +/-0.20mm	Voltage DC	1200 VDC
nm MIN	Dielectric Withstanding Voltage	1,440 VDC
nm +/-0.35mm	Temperature Range	-55/+150°C
r, 180mm, Plastic Tape	Temp. Coefficient	COG
	Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	30 ppm/C, 1kHz 1.0Vrms
	Dissipation Factor	0.1% 1 kHz 1.0Vrms

Aging Rate

Insulation Resistance

 Dimensions

 Chip Size
 2220

 L
 5.7mm +/-0.4mm

 W
 5mm +/-0.4mm

 T
 2mm +/-0.20mm

 S
 3.5mm MIN

 B
 0.6mm +/-0.35mm

### **Packaging Specifications**

PackagingT&R, 180Packaging Quantity500

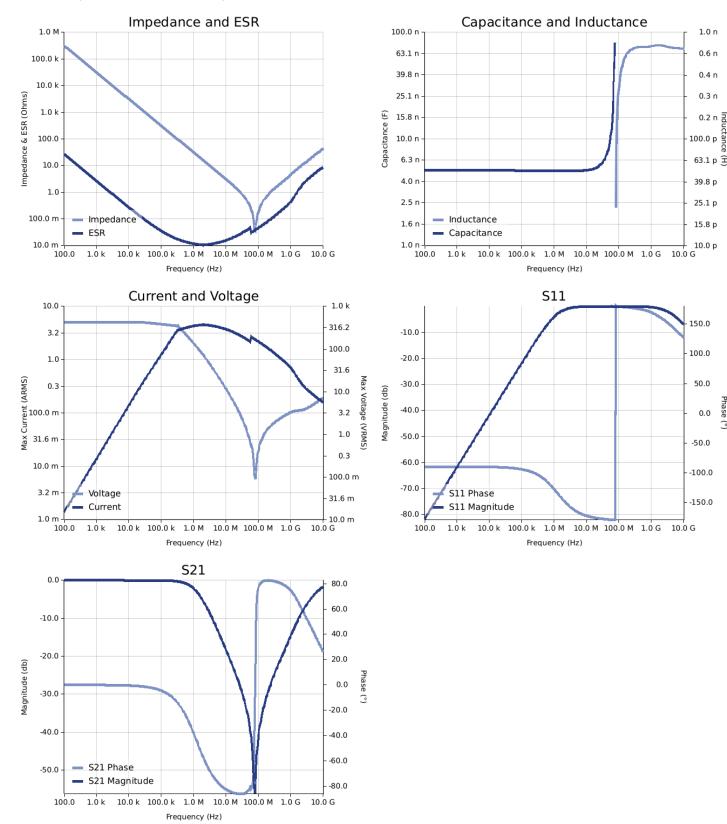
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### Simulations

For the complete simulation environment please visit Y-SIM.



Phase

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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 Current/ Voltage Vs. Frequency plots is the ESR at ambient 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.