

C0805C103Z5UACTM

Aliases (C0805C103Z5UAC7025) SMD Comm Z5U, Ceramic, 0.01 uF, -20/+80%, 50 VDC, Z5U, SMD, MLCC, General Purpose, Class III, 0805, 0.7 mm



Click here for the 3D model.

General Information	
Series	SMD Comm Z5U
Style	SMD Chip
Description	SMD, MLCC, General Purpose, Class III
Features	Class III
RoHS	Yes
Termination	Tin
Marking	Yes
AEC-Q200	No
Typical Component Weight	11 mg
Shelf Life	78 Weeks
MSL	1

0.01 uF

1 kHz 1.0Vrms

Time is 1000 Hours

10 GOhms

s		Specifications
	0805	Capacitance
	2mm +/-0.2mm	Measurement Condition
	1.25mm +/-0.2mm	Tolerance
	0.78mm +/-0.10mm	Voltage DC
	0.7mm MIN	Dielectric Withstanding Vo
	0.5mm +/-0.25mm	Temperature Range
		Temp. Coefficient
Specifications		Capacitance Change with

1.25mm +/-0.2mm	Tolerance	-20/+80%
0.78mm +/-0.10mm	Voltage DC	50 VDC
0.7mm MIN	Dielectric Withstanding Voltage	125 VDC
0.5mm +/-0.25mm	Temperature Range	+10/+85°C
	Temp. Coefficient	Z5U
	Capacitance Change with	+22%/-56%, 1kHz 1.0Vrms
T&R, 180mm, Paper Tape	Reference to +25°C and 0 VDC Applied (TCC)	
4000	Dissipation Factor	4%1 kHz 1.0Vrms
	Dissipation actor	
	Aging Rate	7% Loss/Decade Hour: Referee

Insulation Resistance

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 we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

Dimensions

Chip Size

L

W т

s

в

Packaging 9

Packaging

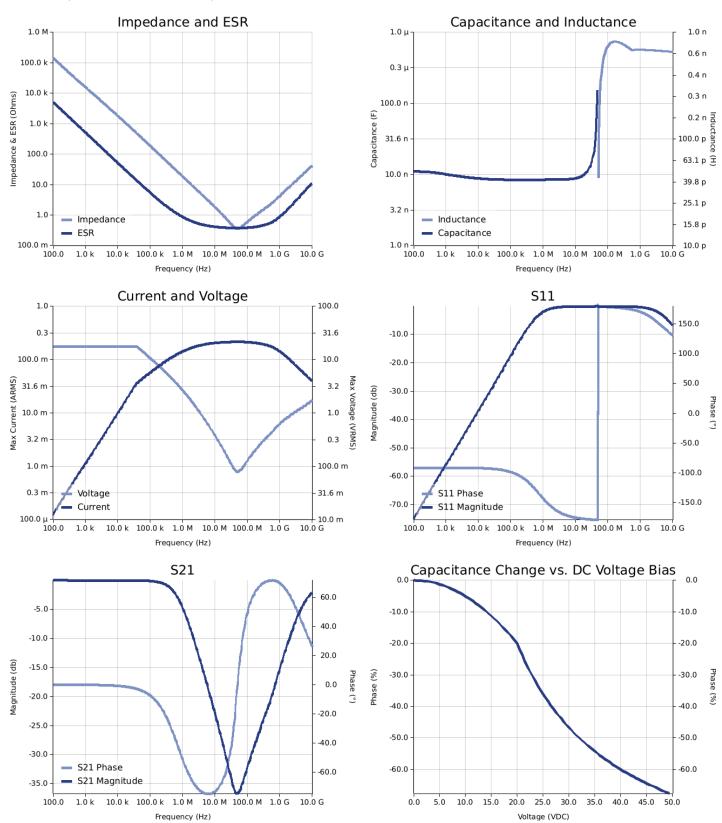
Packaging Quantity



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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.