

C1812C474M5UACTM

Aliases (C1812C474M5UAC7025) SMD Comm Z5U, Ceramic, 0.47 uF, 20%, 50 VDC, Z5U, SMD, MLCC, General Purpose, Class III, 1812, 2.3 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	95 mg
Shelf Life	78 Weeks
MSL	1

Time is 1000 Hours

212.8 MOhms

7% Loss/Decade Hour: Referee

	Specifications	
1812	Capacitance	0.47 uF
4.5mm +/-0.3mm	Measurement Condition	1 kHz 1.0Vrms
3.2mm +/-0.3mm	Tolerance	20%
1mm +/-0.10mm	Voltage DC	50 VDC
2.3mm MIN	Dielectric Withstanding Voltage	125 VDC
0.6mm +/-0.35mm	Temperature Range	+10/+85°C
	Temp. Coefficient	Z5U
	Capacitance Change with	+22%/-56%, 1kHz 1.0Vrms
T&R, 180mm, Plastic Tape	Reference to +25°C and 0 VDC Applied (TCC)	
1000	Dissipation Factor	4%1 kHz 1.0Vrms

Aging Rate

Insulation Resistance

Chip Size L W Т s в

Packaging Specifications Pac

Dimensions

Packaging	T&R, 180mm, Plastic Tap
Packaging Quantity	1000

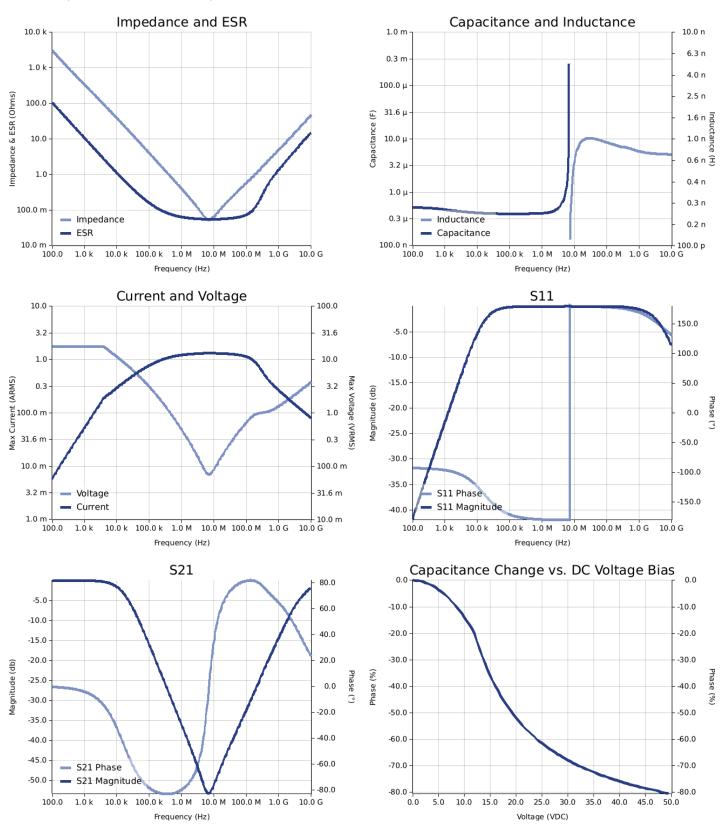
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Simulations

For the complete simulation environment please visit K-SIM.



Generated 05/03/2025



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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.