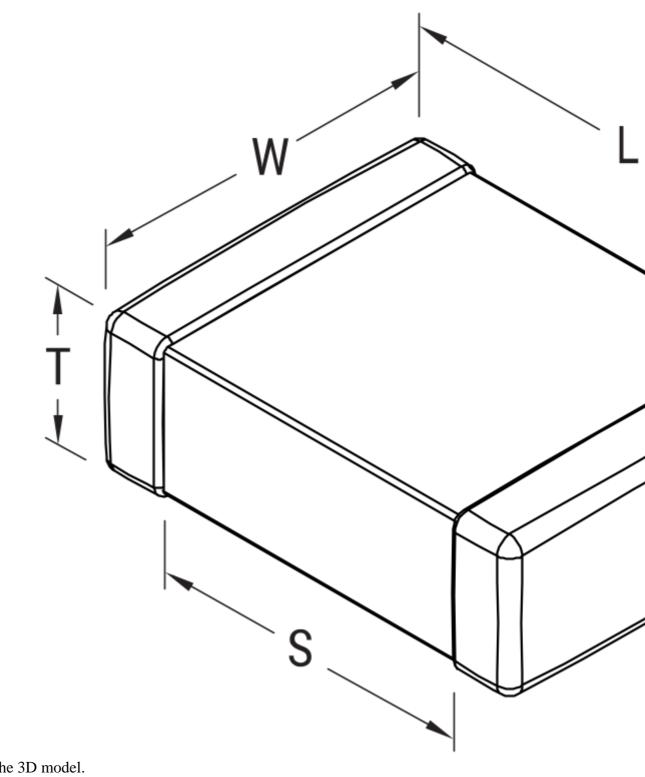
C0402C152J3RALTU

Aliases (C0402C152J3RAL7867)

SMD Comm X7R SnPb, Ceramic, 1500 pF, 5%, 25 VDC, X7R, SMD, MLCC, Temperature Stable, SnPb Termination, 0402



Click <u>here</u> for the 3D model. Dimensions Chip Size 0402 L 1mm +/-0.05mm

Dimensions

- W 0.5mm +/-0.05mm
- T 0.5mm +/-0.05mm
- S 0.3mm MIN
- B 0.3mm +/-0.1mm

Packaging Specifications

Packaging T&R, 180mm, Paper Tape Packaging Quantity 10000

General Information

Series	SMD Comm X7R SnPb
Style	SMD Chip
Description	SMD, MLCC, Temperature Stable, SnPb Termination
Features	SnPb Termination
RoHS	No
Prop 65	WARNING: Cancer and reproductive harm - <u>http://www.p65warnings.ca.gov</u> .
SCIP Number	5549986b-60cf-4a2a-afbb-4ad1d7a11dcb
Termination	Lead (SnPb)
Marking	No
AEC-Q200	No
Component Weight	1.21 mg
Shelf Life	78 Weeks
MSL	1

Specifications Capacitance 1500 pF Measurement Condition 1 kHz 1.0Vrms **Capacitance** Tolerance 5% Voltage DC 25 VDC **Dielectric Withstanding Voltage** 62.5 VDC **Temperature Range** -55/+125°C **Temperature Coefficient** X7R Capacitance Change with Reference to +25°C and 0 15%, 1kHz 1.0Vrms VDC Applied (TCC) **Dissipation Factor** 3.5% 1 kHz 1.0Vrms 3% Loss/Decade Hour: Referee Time Aging Rate is 1000 Hours **Insulation Resistance** 100 GOhms

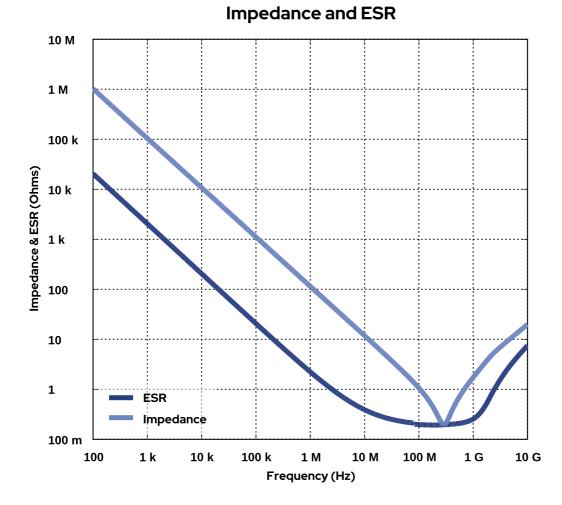
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is 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.

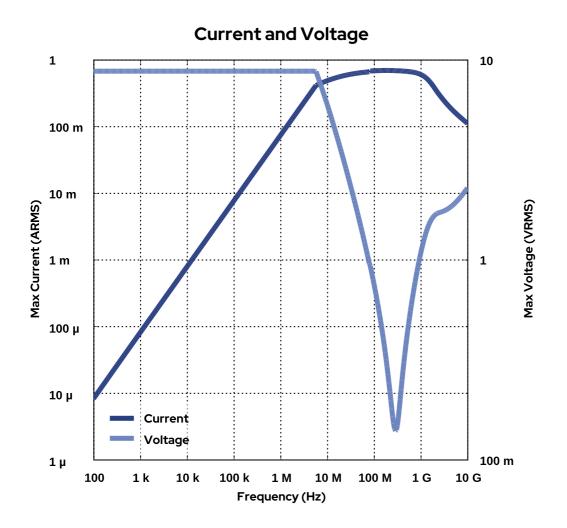
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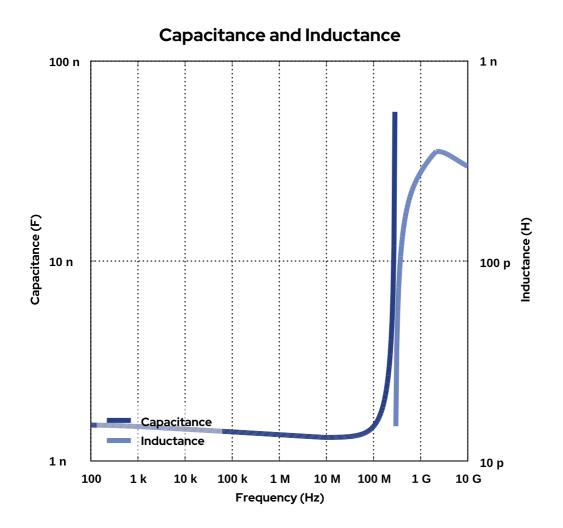
© 2006 - 2023 KEMET Generated 5/18/2023 - 73d0c568-8f27-4700-b437-9d35e8300878 © 2006 - 2023 KEMET

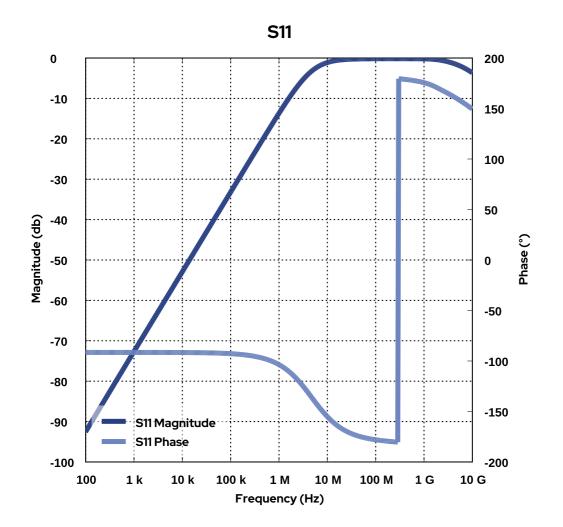
Simulations

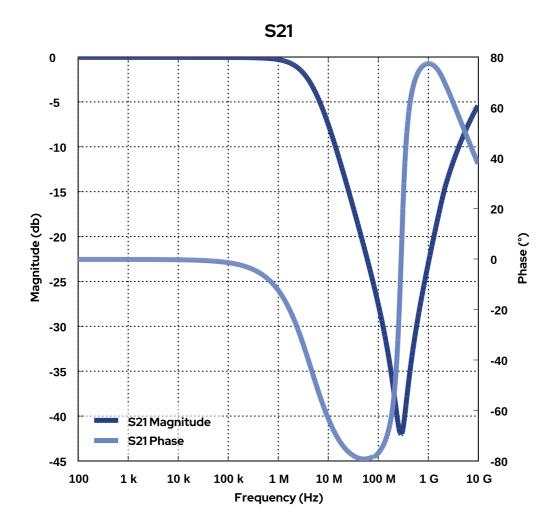
For the complete simulation environment please visit K-SIM.

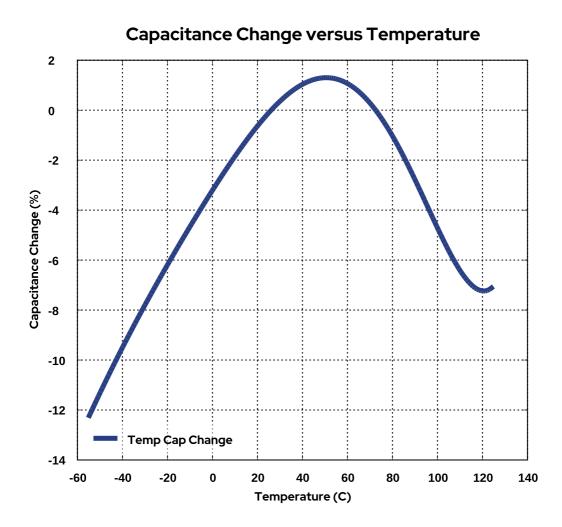


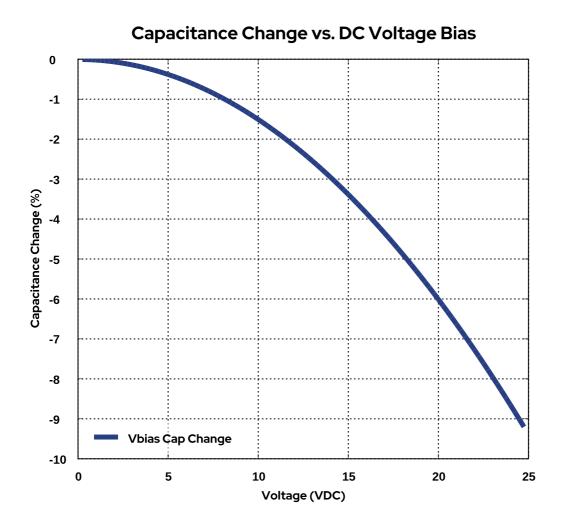


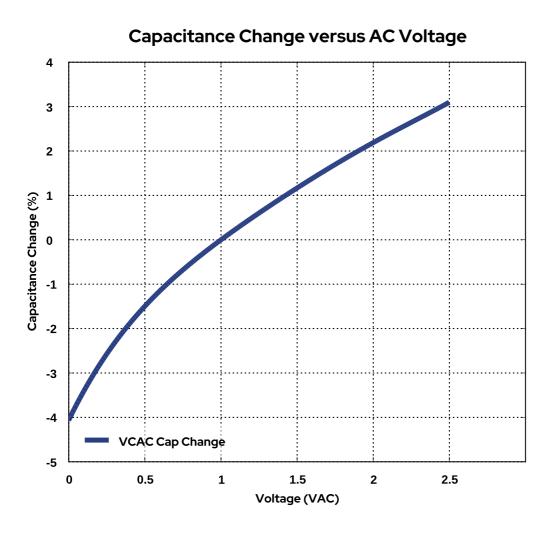












These are simulations.

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 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.