

C1812X154JBRAC

SMD Comm X7R HV Flex, Ceramic, 0.15 uF, 5%, 630 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1812



Click here for the 3D model.

| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 1812            |
| L          | 4.5mm +/-0.4mm  |
| W          | 3.2mm +/-0.3mm  |
| т          | 1.7mm +/-0.20mm |
| В          | 0.7mm +/-0.35mm |

| Packaging Specifications |           |
|--------------------------|-----------|
| Packaging                | Bulk, Bag |
| Packaging Quantity       | 1         |

| General Information |                                       |
|---------------------|---------------------------------------|
| Series              | SMD Comm X7R HV Flex                  |
| Style               | SMD Chip                              |
| Description         | SMD, MLCC, FT-CAP, Temperature Stable |
| Features            | FT-CAP, Temperature Stable            |
| RoHS                | Yes                                   |
| Termination         | Flexible Termination                  |
| Marking             | No                                    |
| AEC-Q200            | No                                    |
| Component Weight    | 185 mg                                |
| Shelf Life          | 78 Weeks                              |
| MSL                 | 1                                     |

| Specifications  |  |
|---|--|
| Capacitance   | 0.15 uF  |
| Measurement Condition   | 1 kHz 1.0Vrms                                      |
| Capacitance Tolerance   | 5%   |
| Voltage DC  | 630 VDC  |
| Dielectric Withstanding Voltage                                       | 945 VDC  |
| Temperature Range   | -55/+125°C   |
| Temperature Coefficient   | X7R  |
| Capacitance Change with Reference<br>to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                                  |
| Dissipation Factor  | 2.5% 1 kHz 1.0Vrms                                 |
| Aging Rate  | 3% Loss/Decade Hour:<br>Referee Time is 1000 Hours |
| Insulation Resistance   | 666.7 MOhms  |

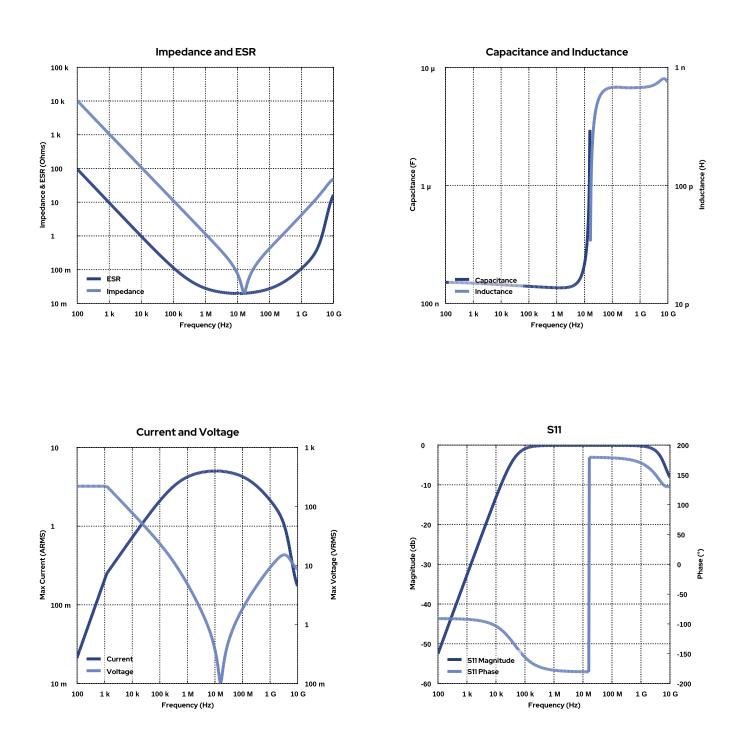
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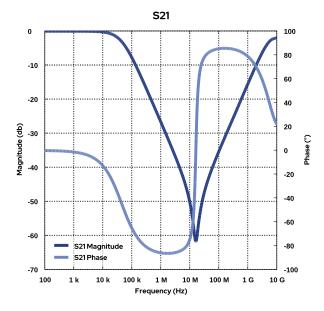
## Simulations

For the complete simulation environment please visit K-SIM.

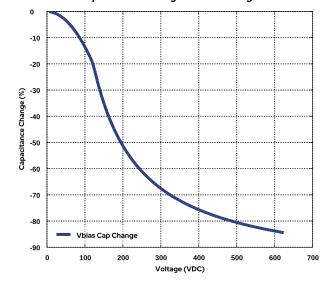


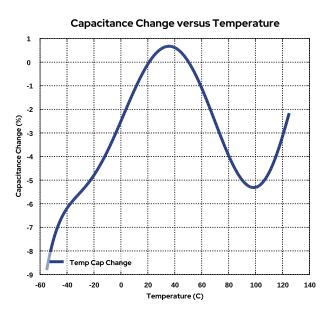


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Capacitance Change vs. DC Voltage Bias





Capacitance Change versus AC Voltage 2 1.5 1 Capacitance Change (%) 0.5 0 -0.5 -1 -1.5 VCAC Cap Chande 0.5 2.5 0 1 1.5 2 Voltage (VAC)



## 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.

单击下面可查看定价,库存,交付和生命周期等信息

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