



Click [here](#) for the 3D model.

General Information

Gruppe	SMD Comm X7R Flex
Typ	SMD Chip
Beschreibung	SMD, MLCC, FT-CAP, Temperature Stable
Eigenschaften	FT-CAP, Temperature Stable
RoHS	Yes
Terminierung	Flexible Termination
Markierung	No
Gewicht	13 mg
Haltbarkeit	78 Weeks
Feuchtigkeitsempfindlichkeit	1

Specifications

Kapazität	0.01 uF
Messbedingung	1 kHz 1.0Vrms
Kapazitätstoleranz	10%
Gleichspannung	200 VDC
Durchschlagsfestigkeit	500 VDC
Temperaturbereich	-55/+125°C
Temperaturkoeffizient	X7R
TCC	15%, 1kHz 1.0Vrms
Verlustfaktor	2.5% 1 kHz 1.0Vrms
Alterungsrate	3% Loss/Decade Hour: Referee Time is 1000 Hours
Isolationswiderstand	100 GOhms

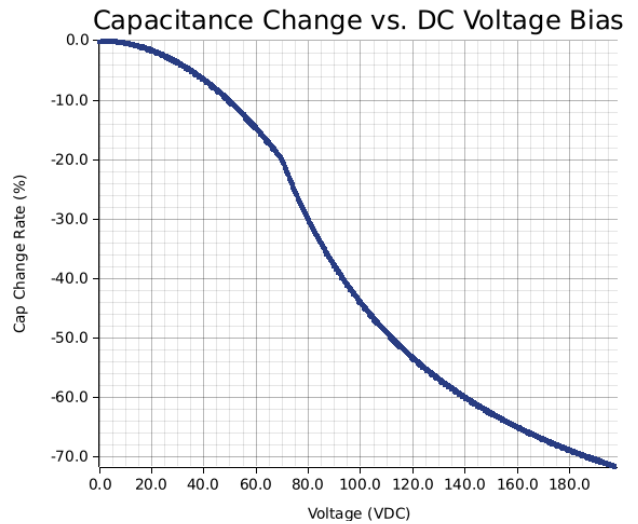
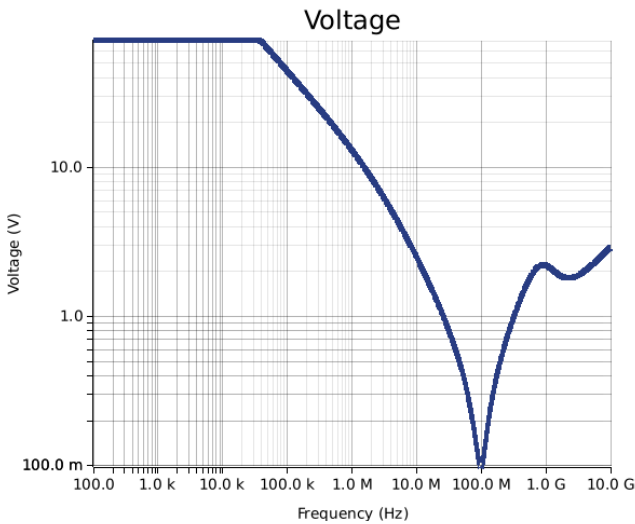
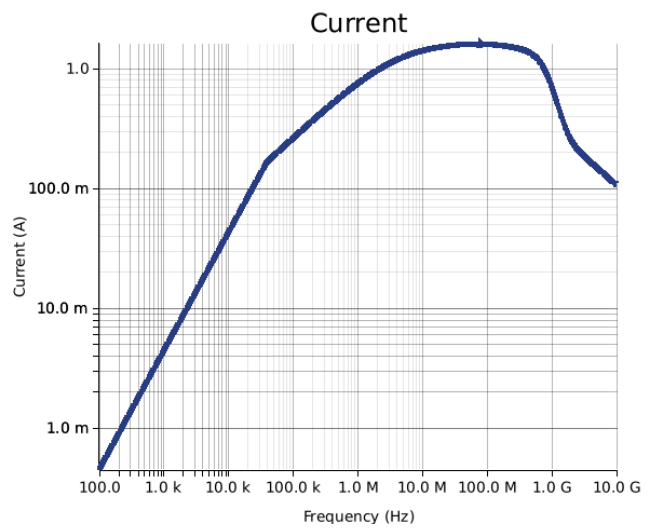
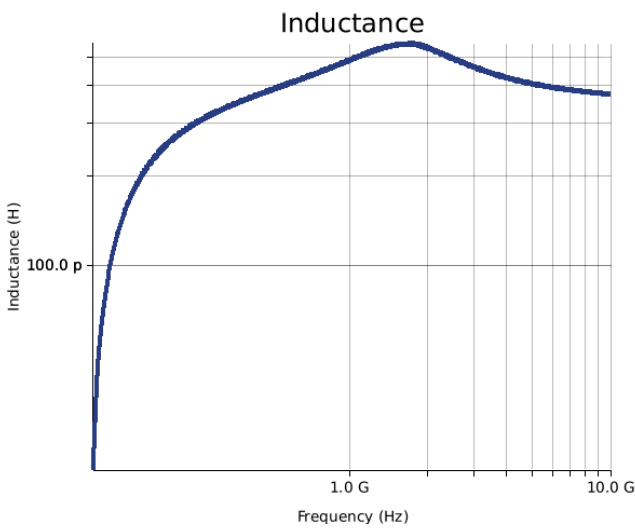
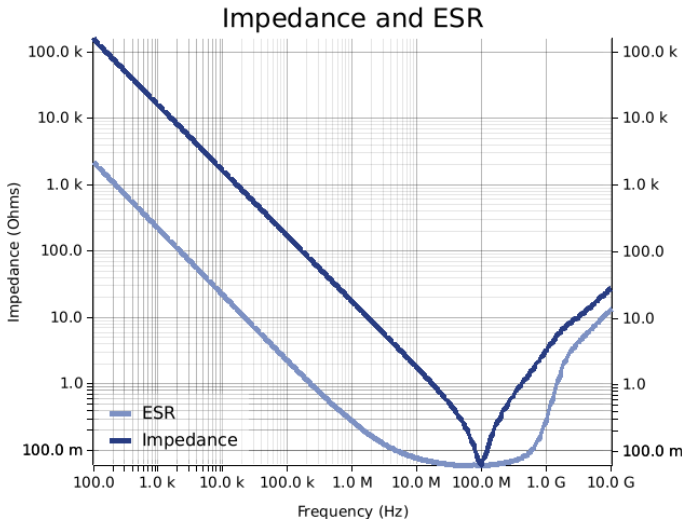
Dimensions	
L	2mm +/-0.3mm
W	1.25mm +/-0.3mm
T	0.78mm +/-0.20mm
S	0.6mm MIN
B	0.5mm +/-0.25mm
Chip Size / Footprint	0805 / 2012

Packaging Specifications	
Verpackung	T&R, 180mm, Plastic Tape
Verpackungsmenge	4000

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.

Simulations

For the complete simulation environment please visit [K-SIM](#).



Capacitance Change vs. Temperature



Capacitance Change vs. AC Voltage



S11



S21



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 effects 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.