

C0603C681K5RACTU

Aliases (C0603C681K5RAC7867) SMD Comm X7R, Ceramic, 680 pF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0603, 0.5 mm



General Information	
Series	SMD Comm X7R
Style	SMD Chip
Description	SMD, MLCC, Temperature Stable, Class II
Features	Temperature Stable, Class II
RoHS	Yes
Termination	Tin
Marking	No
AEC-Q200	No
Typical Component Weight	4.8 mg
Shelf Life	78 Weeks
MSL	1

Dimensions	
Chip Size	0603
L	1.6mm +/-0.15mm
W	0.8mm +/-0.15mm
т	0.8mm +/-0.07mm
S	0.5mm MIN
В	0.35mm +/-0.15mm

Click here for the 3D model.

Packaging Specifications

PackagingT&R, 180mm, Paper TapePackaging Quantity4000

Specifications 680 pF Capacitance 1 kHz 1.0Vrms **Measurement Condition** Tolerance 10% Voltage DC 50 VDC **Dielectric Withstanding Voltage** 125 VDC -55/+125°C **Temperature Range** Temp. Coefficient X7R Capacitance Change with 15%, 1kHz 1.0Vrms Reference to +25°C and 0 VDC Applied (TCC) 2.5%1kHz1.0Vrms **Dissipation Factor** 3% Loss/Decade Hour: Referee Aging Rate Time is 1000 Hours Insulation Resistance 100 GOhms

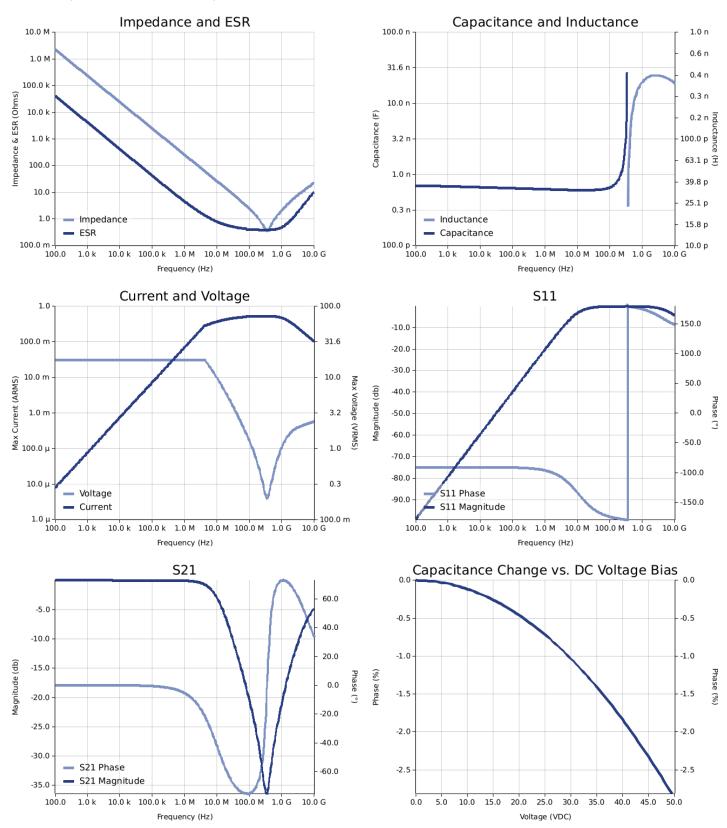
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Simulations

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 is the "Temperature Rise vs. 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.