

C0805X103M5RACTU

Aliases (C0805X103M5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 20%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 0805, 0.6 mm



Click here for the 3D model.

General Information	
Series	SMD Comm X7R 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
Typical Component Weight	13 mg
Shelf Life	78 Weeks
MSL	1

Dimensions		Speci
Chip Size	0805	Capac
L	2mm +/-0.3mm	Measu
W	1.25mm +/-0.3mm	Tolera
Т	0.78mm +/-0.20mm	Voltag
S	0.6mm MIN	Dielec
В	0.5mm +/-0.25mm	Temp
		Temp.

Packaging Specifications

T&R, 180mm, Plastic Tape Packaging 4000 Packaging Quantity

ifications 0.01 uF citance 1 kHz 1.0Vrms urement Condition ance 20% ige DC 50 VDC ectric Withstanding Voltage 125 VDC -55/+125°C perature Range p. 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

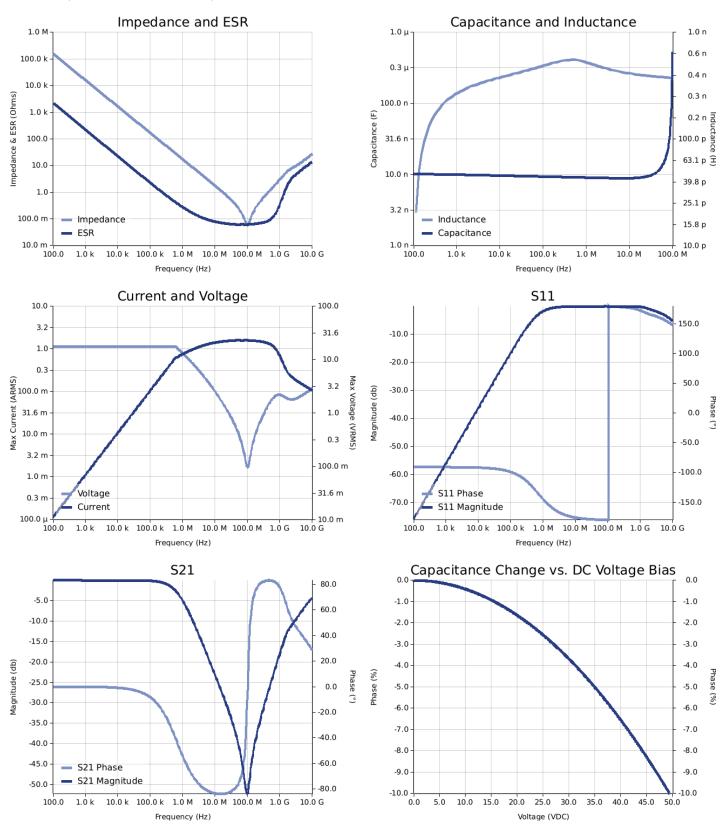
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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



CO805X103M5RACTU Aliases (C0805X103M5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 20%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 0805, 0.6 mm

Simulations

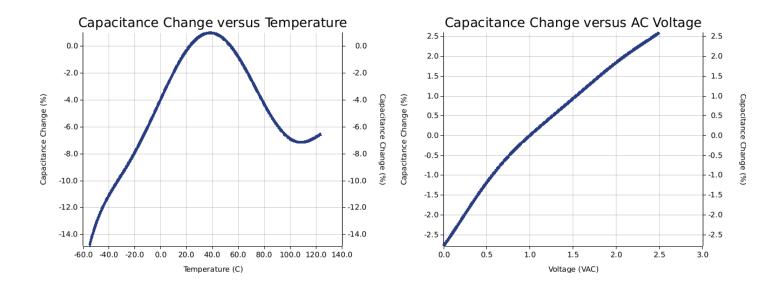
For the complete simulation environment please visit Y-SIM.



Generated 08/31/2025



CO805X103M5RACTU Aliases (C0805X103M5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 20%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 0805, 0.6 mm





C0805X103M5RACTU

Aliases (C0805X103M5RAC7800) SMD Comm X7R Flex, Ceramic, 0.01 uF, 20%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 0805, 0.6 mm

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.

All Information given herein is believed to be accurate and reliable, but is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. 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.

If you have any questions please contact K-SIM.