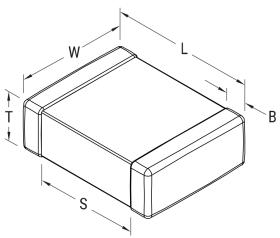


Aliases (C0805V103MBRAC7800)

ArcShield SMD Comm X7R HV, Ceramic, 0.01 uF, 20%, 630 VDC, X7R, SMD, MLCC, ArcShield, High Voltage, Temperature Stable, 0805



Click	here	for	the	3D	mode	اد

Dimensions	
Chip Size	0805
L	2mm +/-0.2mm
W	1.25mm +/-0.2mm
Т	1.25mm +/-0.15mm
S	0.75mm MIN
В	0.5mm +/-0.25mm

Packaging Specifications	
Packaging	T&R, 180mm, Plastic Tape
Packaging Quantity	2500

SeriesArcShield SMD Comm X7R HVStyleSMD ChipDescriptionSMD, MLCC, ArcShield, High Voltage, Temperature StableFeaturesHigh Voltage, Temperature StableRoHSYesTerminationTinMarkingNoAEC-Q200NoComponent Weight21 mgMiscellaneousX7R dielectric is not recommended for AC line filtering or pulse applications.Shelf Life78 Weeks	General Information	
Description  SMD, MLCC, ArcShield, High Voltage, Temperature Stable  Features  High Voltage, Temperature Stable  RoHS  Yes  Termination  Tin  Marking  No  AEC-Q200  No  Component Weight  Miscellaneous  X7R dielectric is not recommended for AC line filtering or pulse applications.	Series	ArcShield SMD Comm X7R HV
Temperature Stable  Features High Voltage, Temperature Stable  RoHS Yes  Termination Tin  Marking No  AEC-Q200 No  Component Weight 21 mg  Miscellaneous X7R dielectric is not recommended for AC line filtering or pulse applications.	Style	SMD Chip
RoHS Yes Termination Tin Marking No AEC-Q200 No Component Weight 21 mg Miscellaneous X7R dielectric is not recommended for AC line filtering or pulse applications.	Description	
Termination Tin  Marking No  AEC-Q200 No  Component Weight 21 mg  Miscellaneous X7R dielectric is not recommended for AC line filtering or pulse applications.	Features	High Voltage, Temperature Stable
Marking No AEC-Q200 No Component Weight 21 mg  X7R dielectric is not recommended for AC line filtering or pulse applications.	RoHS	Yes
AEC-Q200 No  Component Weight 21 mg  Miscellaneous X7R dielectric is not recommended for AC line filtering or pulse applications.	Termination	Tin
Component Weight 21 mg  X7R dielectric is not recommended for AC line filtering or pulse applications.	Marking	No
Weight  X7R dielectric is not recommended for AC line filtering or pulse applications.	AEC-Q200	No
Miscellaneous filtering or pulse applications.		21 mg
Shelf Life 78 Weeks	Miscellaneous	
	Shelf Life	78 Weeks
MSL 1	MSL	1

Specifications	
Capacitance	0.01 uF
Measurement Condition	1 kHz 1.0Vrms
Capacitance Tolerance	20%
Voltage DC	630 VDC
Dielectric Withstanding Voltage	945 VDC
Temperature Range	-55/+125°C
Temperature Coefficient	X7R
Capacitance Change with Reference 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: Referee Time is 1000 Hours
Insulation Resistance	10 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.

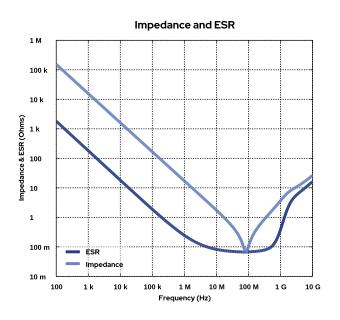


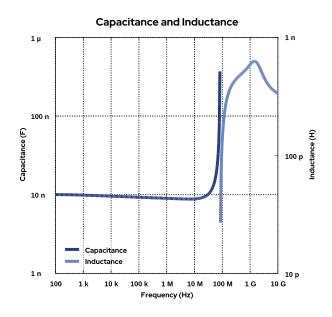
Aliases (C0805V103MBRAC7800)

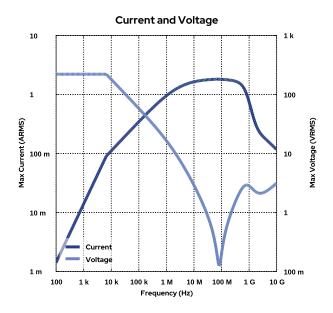
ArcShield SMD Comm X7R HV, Ceramic, 0.01 uF, 20%, 630 VDC, X7R, SMD, MLCC, ArcShield, High Voltage, Temperature Stable, 0805

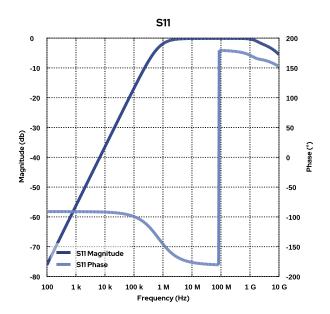
## **Simulations**

For the complete simulation environment please visit K-SIM.





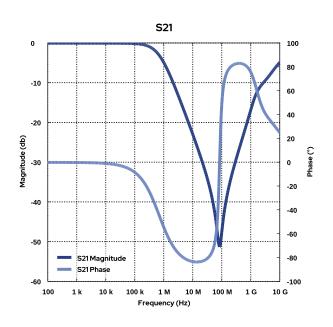


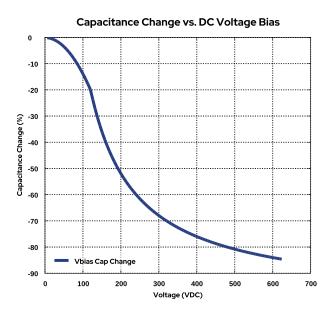


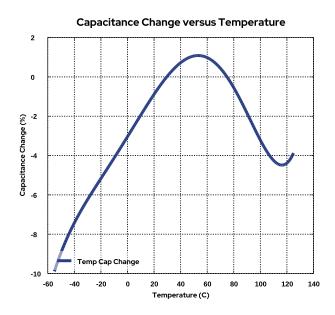


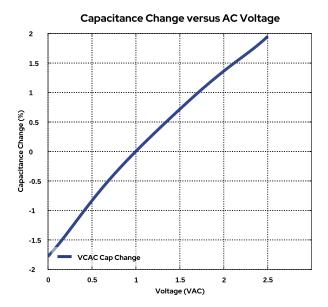
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#### These are simulations.

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 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
- 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.