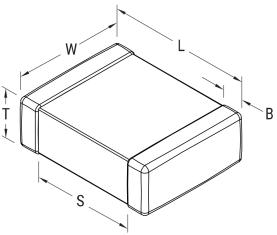


Aliases (C0603W102KBRAC7867)

ArcShield SMD Comm X7R HV, Ceramic, 1000 pF, 10%, 630 VDC, X7R, SMD, MLCC, Arcshield, High Voltage, 0603 $\,$



Click here for the 3D model.

Dimensions	
Chip Size	0603
L	1.6mm +/-0.17mm
W	0.8mm +/-0.15mm
Т	0.8mm +/-0.10mm
S	0.58mm MIN
В	0.45mm +/-0.15mm

Packaging Specifications		
Packaging	T&R, 180mm, Paper Tape	
Packaging Quantity	4000	

General Information	
Series	ArcShield SMD Comm X7R HV
Style	SMD Chip
Description	SMD, MLCC, Arcshield, High Voltage
Features	High Voltage
RoHS	Yes
Termination	Flexible Termination
Marking	No
AEC-Q200	No
Typical Component Weight	6.5 mg
Miscellaneous	X7R dielectric is not recommended for AC line filtering or pulse applications.
Shelf Life	78 Weeks
MSL	1

Specifications	
Capacitance	1000 pF
Measurement Condition	1 kHz 1.0Vrms
Capacitance Tolerance	10%
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.

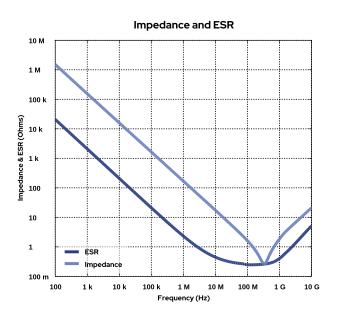


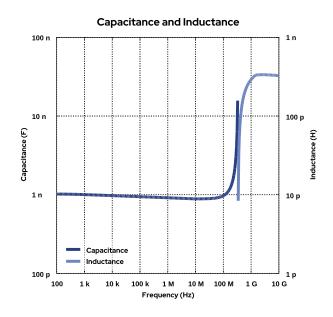
Aliases (C0603W102KBRAC7867)

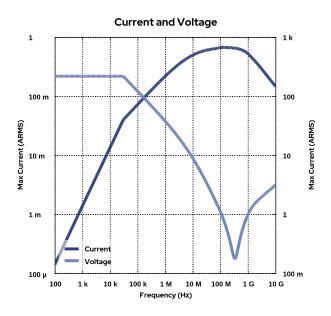
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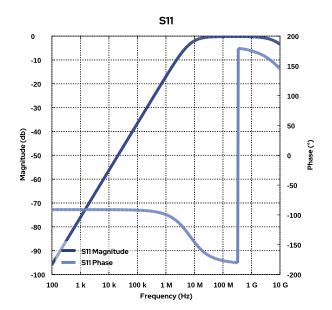
Simulations

For the complete simulation environment please visit K-SIM.





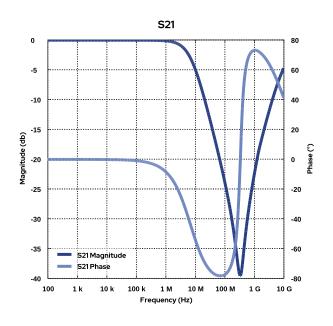


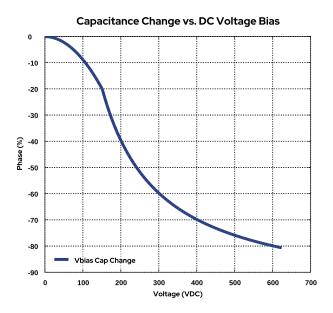


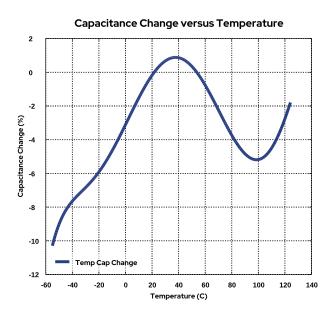


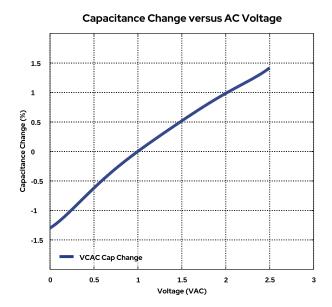
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Aliases (C0603W102KBRAC7867)

ArcShield SMD Comm X7R HV, Ceramic, 1000 pF, 10%, 630 VDC, X7R, SMD, MLCC, Arcshield, High Voltage, 0603

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.

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If you have any questions please contact K-SIM.

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CDR35BX104BKUR\M500 M39014/220214 CHP1-100-8202-G-LF674A 1206B103K501NT 0402N820J101CT 1206N221J202CT 1206N220J501CT 0603X155K6R3CT 1206N3R9C102CT 1206N151J500CT 1206N103J101CT 0603B152K201CT RF18N5R0B500CT 0603B472K201CT 0603N1R0C251CT 0805B153K201CT 1210B333K101CT CC0100JRNPO8BN100 CC0100JRNPO6BN101 CC0805KRX7R0BB821 CC0402JRNPO9BN301 CC0100JRNPO7BN100 CC0805KKX7R0BB105 AC0805KKX7R6BB475 CC0805FRNPO9BN750 CC0805KKX7R7BB824 CC0805KRX7RBBB561 CQ0402DRNPO9BN5R6 AF0100FR-07200KL CC0201FRNPO9BN200 CC0805CRNPO0BN5R0 CC0805GKNPO9BN472 CC1206JKX7R9BB474 CC0805GRNPO0BN391 CC1206JRX7R8BB474 CC0201CRNPO8BN8R0 CC0201BRNPO8BNR70 CC0201JRX7R7BB332 CC0805GRNPO9BN201 CC0100KRX5R6BB103 CC0402GRNPO9BN102 CC1206ZRY5V6BB105 CC0805KRNPO9BN180