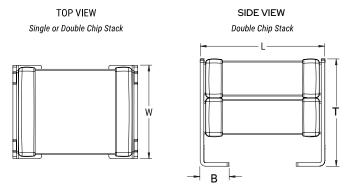




KPS SMD Comm X7R HV SnPb, Ceramic, 0.47 uF, 20%, 500 VDC, X7R, 2220-2



Click	here :	for t	he 3D	model.
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General Information		
Series	KPS SMD Comm X7R HV SnPb	
Style	Stacked Chip	
Description	SMD, MLCC, Stacked, Double Chip, High Voltage, Temperature Stable	
Features	Temperature Stable	
RoHS	No	
Prop 65	WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov /	
SCIP Number	795b247e-78a9-405c-8728-22 3c2d9782a2	
Termination	Lead (SnPb)	
AEC-Q200	No	
Typical Component Weight	800 mg	
Miscellaneous	X7R dielectric is not recommended for AC line filtering or pulse applications.	
Chip Size	2220-2	
Shelf Life	78 Weeks	
MSL	1	

Dimensions				
L	6mm +/-0.5mm			
W	5mm +/-0.5mm			
T	5mm +/-0.50mm			
В	1.6mm +/-0.3mm			
Packaging Specifications				
Packaging	T&R, 180mm, Plastic Tape			
Packaging Quantity	200			

Specifications	
Capacitance	0.47 uF
Measurement Condition	1 kHz 1.0Vrms
Tolerance	20%
Voltage DC	500 VDC
Dielectric Withstanding Voltage	750 VDC
Temperature Range	-55/+125°C
Temp. 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	212.8 MOhms

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.

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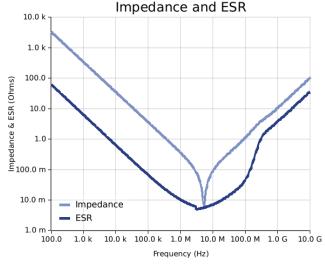


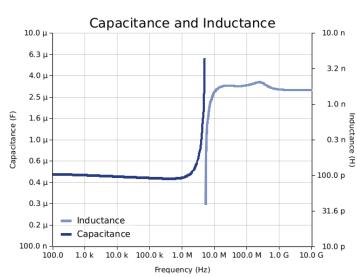


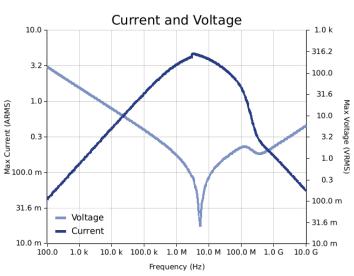
KPS SMD Comm X7R HV SnPb, Ceramic, 0.47 uF, 20%, 500 VDC, X7R, 2220-2

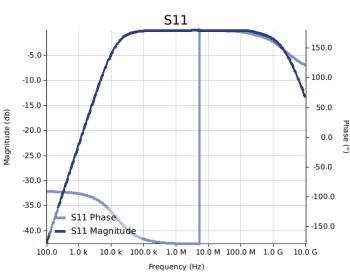
Simulations

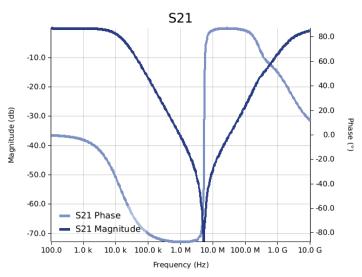
For the complete simulation environment please visit K-SIM.

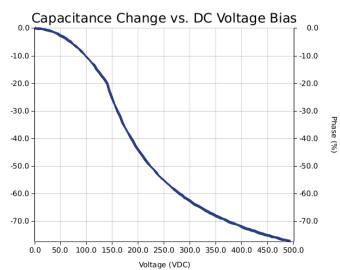












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C2220C474MCR2L7186

KPS SMD Comm X7R HV SnPb, Ceramic, 0.47 uF, 20%, 500 VDC, X7R,

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 used for ripple Ripple Currenty votage vs. rrequency plots is unleast at an interact 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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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.

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