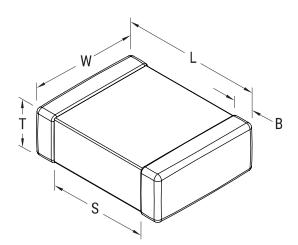


C2220C564JARACTU

Aliases (C2220C564JARAC7800) SMD Comm X7R, Ceramic, 0.56 uF, 5%, 250 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 2220, 3.5 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	170 mg
Shelf Life	78 Weeks
MSL	1

Spec	cifications	
Capa	acitance	0.56 uF
Meas	surement Condition	1 kHz 1.0Vrms
Toler	ance	5%
Volta	age DC	250 VDC
Diele	ectric Withstanding Voltage	625 VDC
Temp	perature Range	-55/+125°C
Temp	o. Coefficient	X7R
Refe	acitance Change with rence to +25°C and 0 VDC ied (TCC)	15%, 1kHz 1.0Vrms
Dissi	pation Factor	2.5%1kHz1.0Vrms
Agin	g Rate	3% Loss/Decade Hour: Referee Time is 1000 Hours
Insul	ation Resistance	1.7857 GOhms

 Dimensions
 2220

 Chip Size
 2220

 L
 5.7mm +/-0.4mm

 W
 5mm +/-0.4mm

 T
 1.3mm +/-0.15mm

 S
 3.5mm MIN

Click here for the 3D model.

## Packaging Specifications Packaging T&R, 180mm, Plastic Tape

В

Packaging Quantity 1000

0.6mm +/-0.35mm

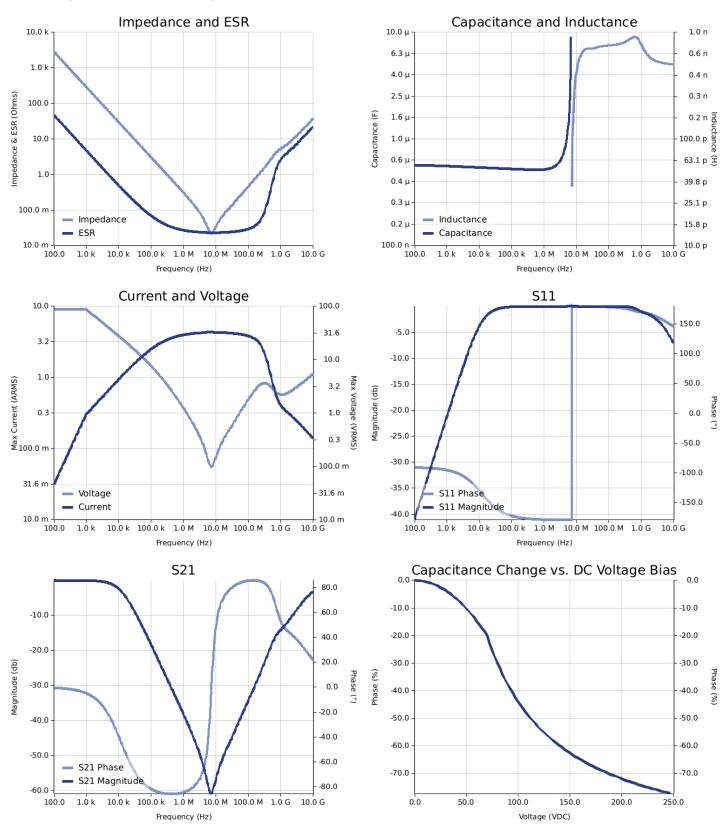
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

For the complete simulation environment please visit K-SIM.



Generated 05/15/2025



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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 used for hipple klipple current younge vs. requericy plots is the ESR at an bient 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 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.