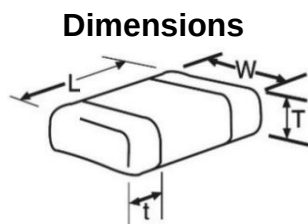


# 1210YC225KAT2A Datasheet

(1210 16V X7R 2.2uF ±10%)

To download data and simulation models visit: **SpiCAT** ONLINE TOOL

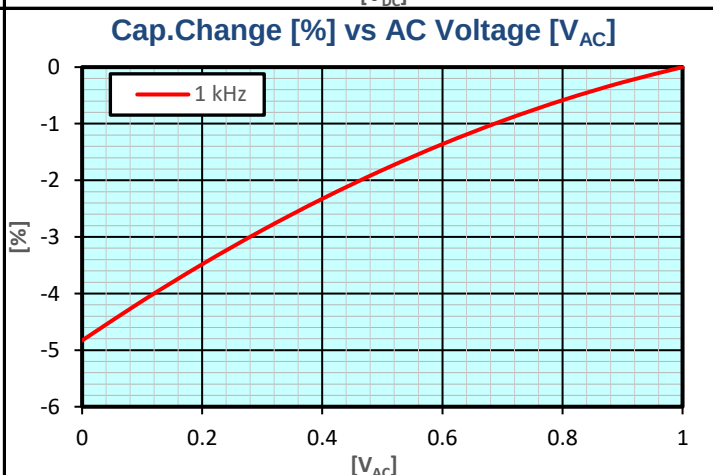
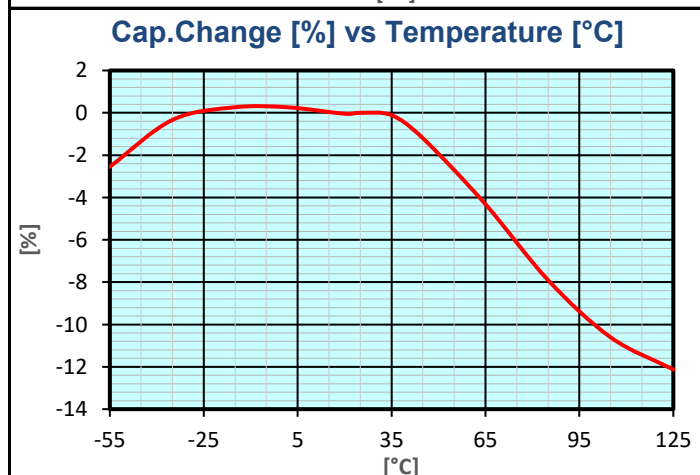
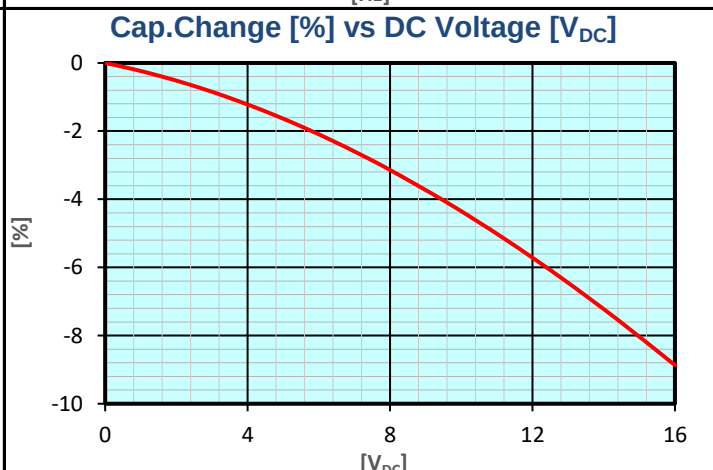
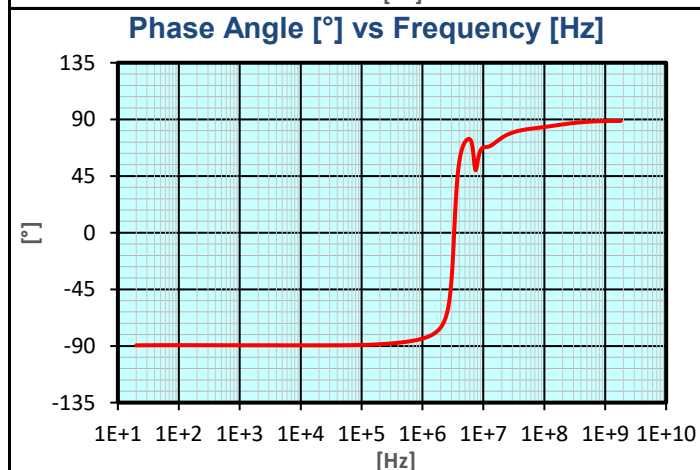
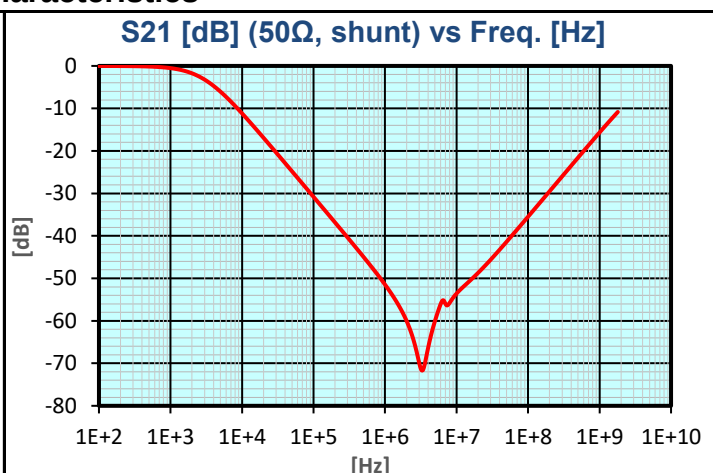
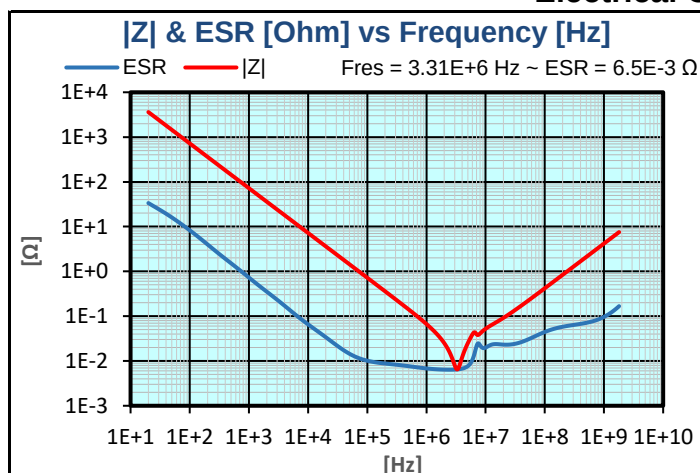


|        | millimetres | inches        |
|--------|-------------|---------------|
| L      | 3.3 ± 0.4   | 0.13 ± 0.016  |
| W      | 2.5 ± 0.3   | 0.098 ± 0.012 |
| T max. | 2.29        | 0.09          |
| t      | 0.5 ± 0.25  | 0.02 ± 0.01   |

## Basic Specifications

| Item                  | Unit | Spec.           | Conditions          |
|-----------------------|------|-----------------|---------------------|
| Capacitance           | uF   | 1.98 to 2.42    | @ 1 kHz, 1 Vrms     |
| DF                    | %    | 12.5 max.       | @ 1 kHz, 1 Vrms     |
| IR                    | MΩ   | 454.5 min.      | @ 16 Vdc, t = 120 s |
| DWV                   | Vdc  | 40              | @ I ≤ 50mA, t ≤ 5 s |
| Operating Temperature |      | -55°C to +125°C |                     |
| Dielectric            |      | X7R             |                     |
| AEC-Q200              |      | Not qualified   |                     |
| RoHS Compliant        |      | Yes             |                     |
| Termination           |      | Sn              |                     |

## Electrical Characteristics

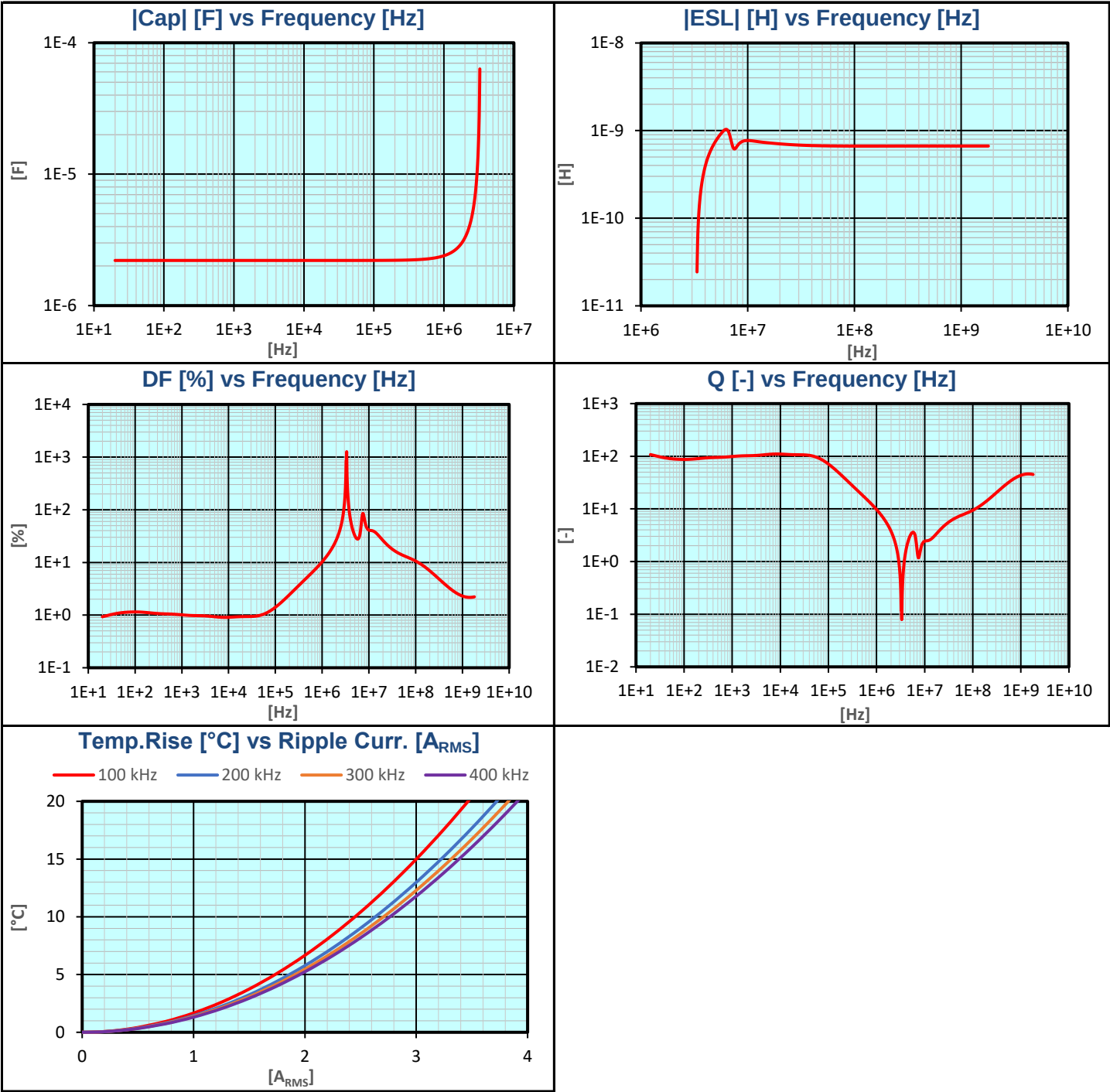


# 1210YC225KAT2A Datasheet



(1210 16V X7R 2.2uF ±10%)

## Electrical Characteristics



# 1210YC225KAT2A Datasheet



(1210 16V X7R 2.2uF ±10%)

## How To Order

|                                                                                                                                                                                                                                                                                                                        |                                                                                                                                       |                                               |                                                                                             |                                                                                                                                                              |                                                                                         |                                                                                                                                                     |                                                                                                                                  |                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>0805</b><br>T<br><b>Size</b><br>(L" x W")                                                                                                                                                                                                                                                                           | <b>5</b><br>T<br><b>Voltage</b><br>4V = 4<br>6.3V = 6<br>10V = Z<br>16V = Y<br>25V = 3<br>50V = 5<br>100V = 1<br>200V = 2<br>500V = 7 | <b>C</b><br>T<br><b>Dielectric</b><br>X7R = C | <b>103</b><br>T<br><b>Capacitance</b><br>Code (In pF)<br>2 Sig. Digits +<br>Number of Zeros | <b>M</b><br>T<br><b>Capacitance</b><br><b>Tolerance</b><br>J = ± 5%*<br>K = ±10%<br>M = ± 20%<br><br>*≤1μF only,<br>contact factory for<br>additional values | <b>A</b><br>T<br><b>Failure</b><br><b>Rate</b><br>A = Not<br>Applicable<br>4=Automotive | <b>T</b><br>T<br><b>Terminations</b><br>T = Plated Ni and Sn<br>Z= FLEXITERM®**<br><br>*Optional termination<br><br>**See FLEXITERM®<br>X7R section | <b>2</b><br>T<br><b>Packaging</b><br>2 = 7" Reel<br>4 = 13" Reel<br><br><b>Contact</b><br><b>Factory For</b><br><b>Multiples</b> | <b>A</b><br>T<br><b>Special</b><br><b>Code</b><br>A = Std.<br>Product |
| NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.<br>Contact factory for non-specified capacitance values.                                                                                                                                                        |                                                                                                                                       |                                               |                                                                                             |                                                                                                                                                              |                                                                                         |                                                                                                                                                     |                                                                                                                                  |                                                                       |
| NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are beleived to be accurate and reliable, but are<br>presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications. |                                                                                                                                       |                                               |                                                                                             |                                                                                                                                                              |                                                                                         |                                                                                                                                                     |                                                                                                                                  |                                                                       |