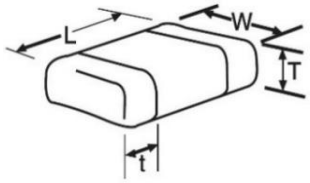
# 04023C391KAZ2A Datasheet

## (0402 25V X7R 390pF ±10% FLEXITERM®)

To download data and simulation models visit: SpiCAT ONLINE TOOL

KYOCERA AVX

## Dimensions



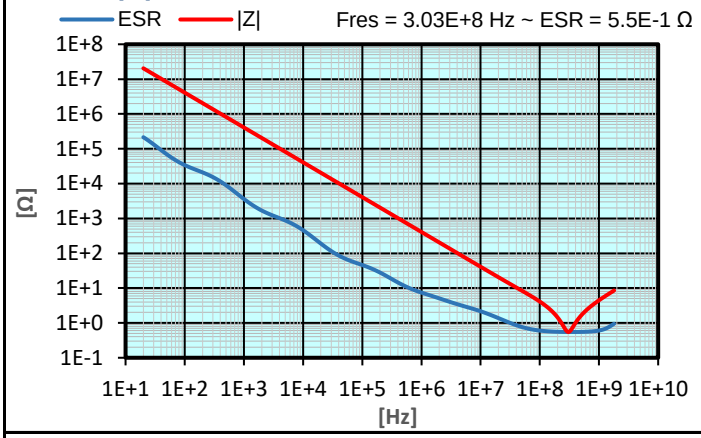

| | *millimetres* | *inches* |
|---|---|---|
| **L** | 1 ± 0.1 | 0.039 ± 0.004 |
| **W** | 0.5 ± 0.1 | 0.02 ± 0.004 |
| **T max.** | 0.56 | 0.022 |
| **t** | 0.25 ± 0.15 | 0.01 ± 0.006 |

## Basic Specifications

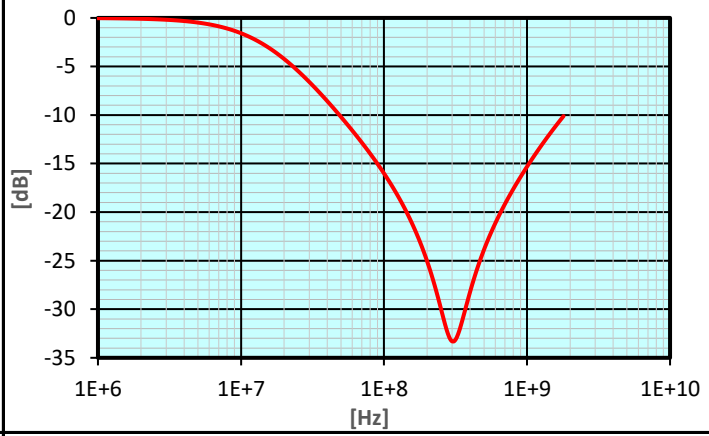
| *Item* | *Unit* | *Spec.* | *Conditions* |
|---|---|---|---|
| **Capacitance** | pF | 351 to 429 | @ 1 kHz, 1 Vrms |
| **DF** | % | 12.5 max. | @ 1 kHz, 1 Vrms |
| **IR** | GΩ | 100 min. | @ 25 Vdc, t = 120 s |
| **DWV** | Vdc | 62.5 | @ I ≤ 50mA, t ≤ 5 s |
| **Operating Temperature** | | -55°C to +125°C | |
| **Dielectric** | | X7R | |
| **AEC-Q200** | | Not qualified | |
| **RoHS Compliant** | | Yes | |
| **Termination** | | FLEXITERM® | |

## Electrical Characteristics

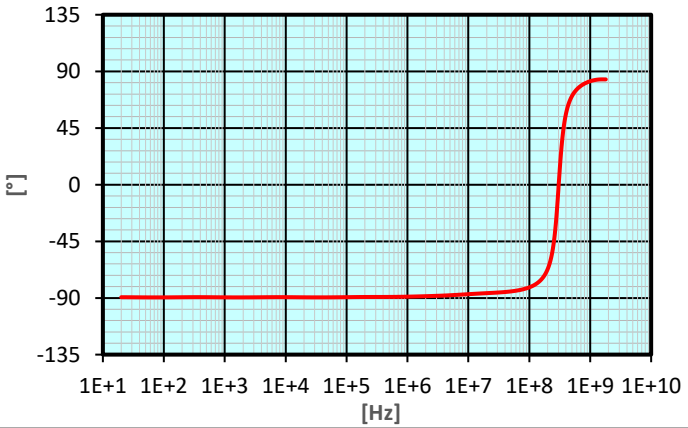
### |Z| & ESR [Ohm] vs Frequency [Hz]



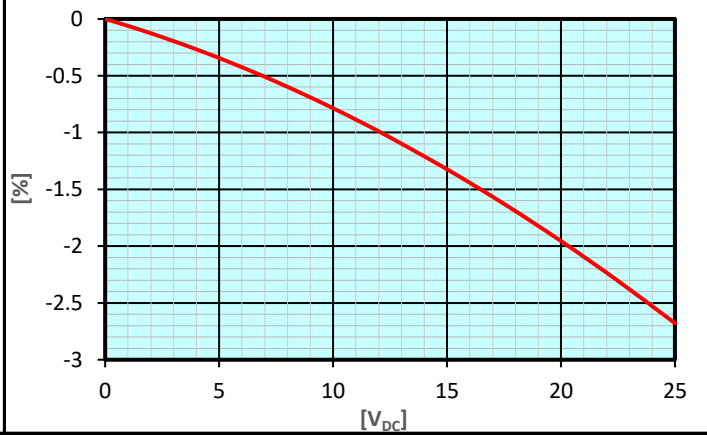

### S21 [dB] (50Ω, shunt) vs Freq. [Hz]



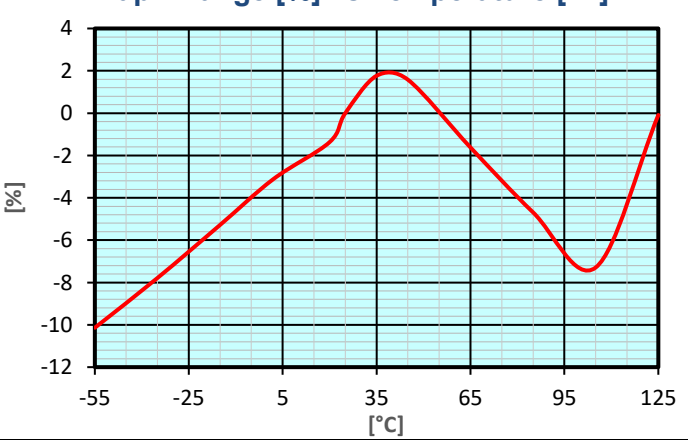

### Phase Angle [°] vs Frequency [Hz]



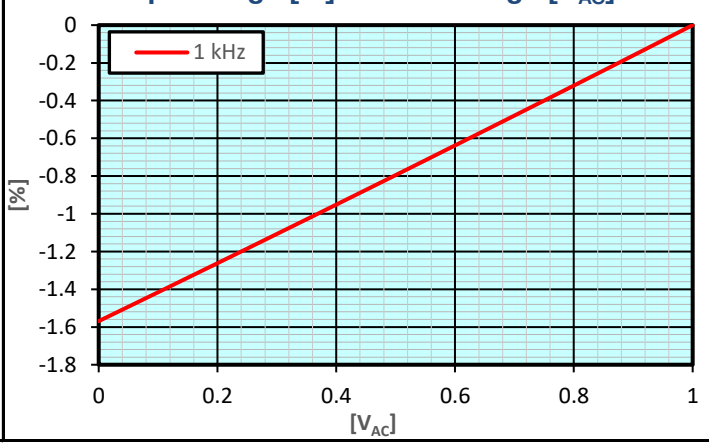

### Cap.Change [%] vs DC Voltage [$V_{DC}$]




### Cap.Change [%] vs Temperature [°C]




### Cap.Change [%] vs AC Voltage [$V_{AC}$]

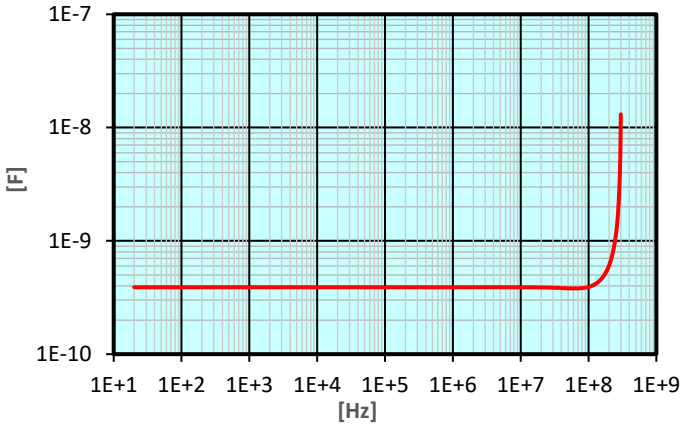




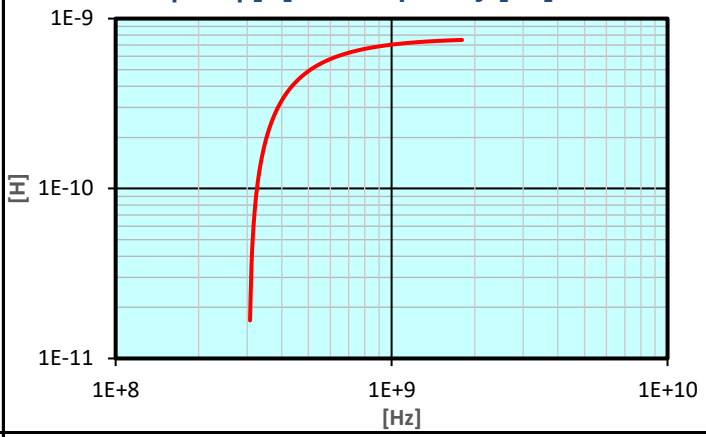
© KYOCERA AVX

## Electrical Characteristics

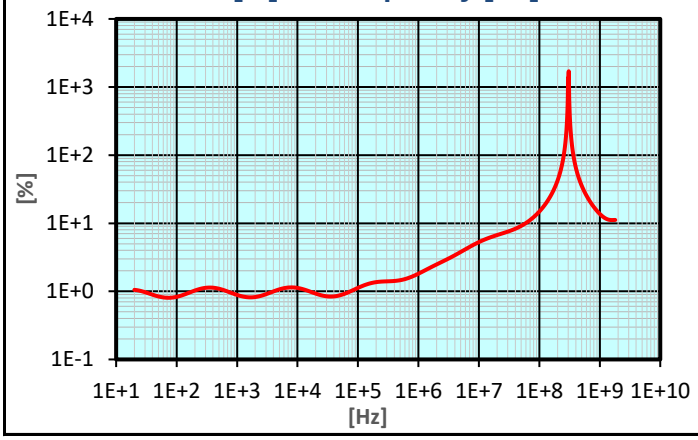
### |Cap| [F] vs Frequency [Hz]



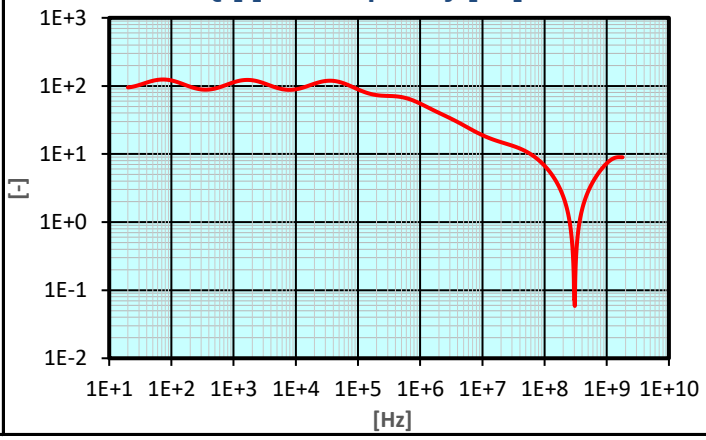

### |ESL| [H] vs Frequency [Hz]




### DF [%] vs Frequency [Hz]




### Q [-] vs Frequency [Hz]






© KYOCERA AVX

# 04023C391KAZ2A Datasheet

## (0402 25V X7R 390pF ±10% FLEXITERM®)

### How To Order

| 0805 | 5 | C | 103 | M | A | T | 2 | A |
|---|---|---|---|---|---|---|---|---|
| **Size** (L" x W") | **Voltage** 4V = 4, 6.3V = 6, 10V = Z, 16V = Y, 25V = 3, 50V = 5, 100V = 1, 200V = 2, 500V = 7 | **Dielectric** X7R = C | **Capacitance** Code (In pF) 2 Sig. Digits + Number of Zeros | **Capacitance Tolerance** J = ± 5%* K = ±10% M = ± 20% *≤1µF only, contact factory for additional values | **Failure Rate** A = Not Applicable 4=Automotive | **Terminations** T = Plated Ni and Sn Z= FLEXITERM®** *Optional termination **See FLEXITERM® X7R section | **Packaging** 2 = 7" Reel 4 = 13" Reel **Contact Factory For Multiples** | **Special Code** A = Std. Product |

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.
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 presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications.