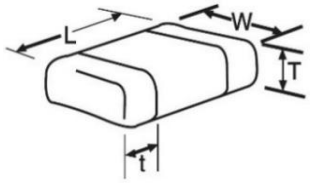
# 06033C103M4Z2A Datasheet

To download data and simulation models visit: SpiCAT ONLINE TOOL

KYOCERA AVX

## (0603 25V X7R 10nF ±20% AEC-Q200 FLEXITERM®)

### Dimensions



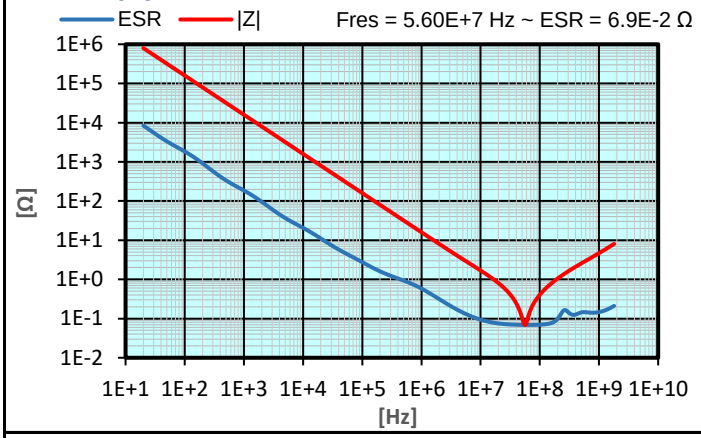

| | *millimetres* | *inches* |
|---|---|---|
| **L** | 1.6 ± 0.15 | 0.063 ± 0.006 |
| **W** | 0.81 ± 0.15 | 0.032 ± 0.006 |
| **T max.** | 0.9 | 0.035 |
| **t** | 0.35 ± 0.15 | 0.014 ± 0.006 |

### Basic Specifications

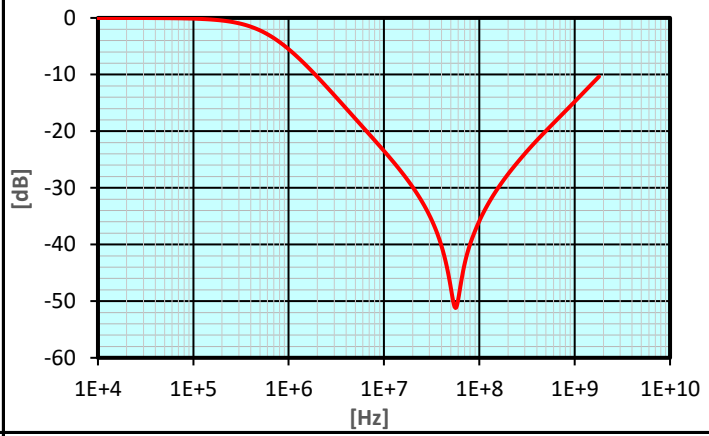
| *Item* | *Unit* | *Spec.* | *Conditions* |
|---|---|---|---|
| **Capacitance** | nF | 8 to 12 | @ 1 kHz, 1 Vrms |
| **DF** | % | 3 max. | @ 1 kHz, 1 Vrms |
| **IR** | GΩ | 100 min. | @ 25 Vdc, t = 120 s |
| **DWV** | Vdc | 62.5 | @ I ≤ 50mA, t ≤ 5 s |
| **Operating Temperature** | | -55°C to +125°C | |
| **Dielectric** | | X7R | |
| **AEC-Q200** | | Qualified | |
| **RoHS Compliant** | | Yes | |
| **Termination** | | FLEXITERM® | |

### Electrical Characteristics

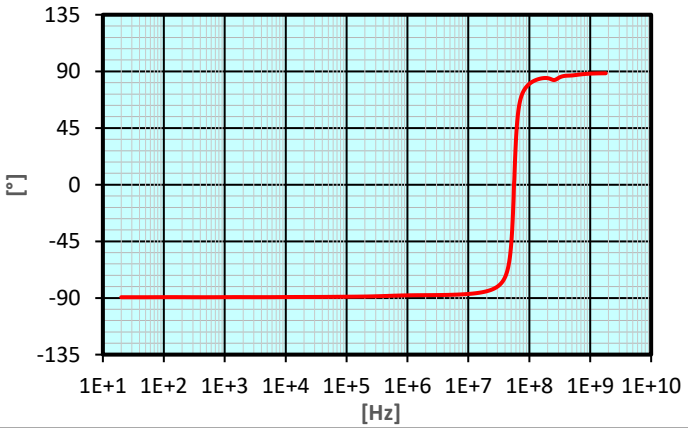
|Z| & ESR [Ohm] vs Frequency [Hz]



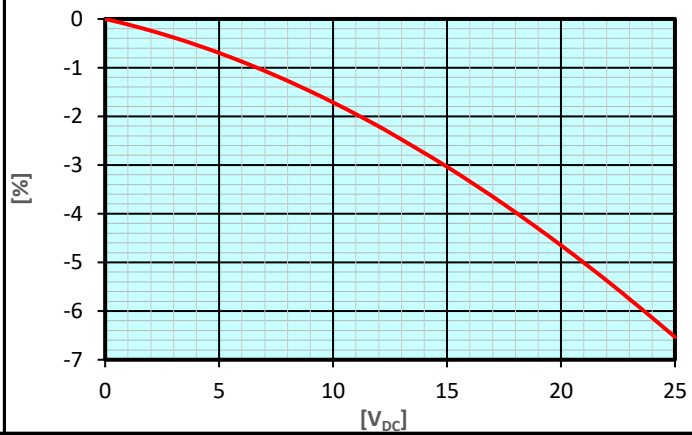

S21 [dB] (50Ω, shunt) vs Freq. [Hz]



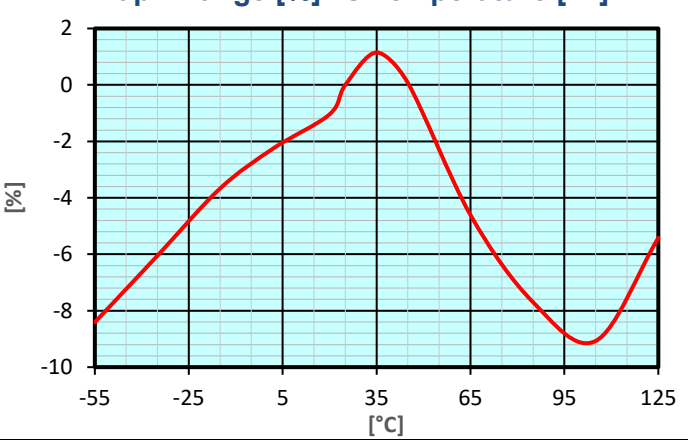

Phase Angle [°] vs Frequency [Hz]



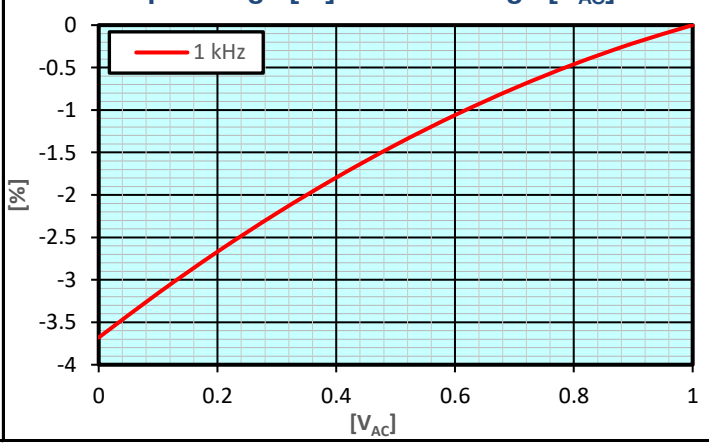

Cap.Change [%] vs DC Voltage [$V_{DC}$]




Cap.Change [%] vs Temperature [°C]




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

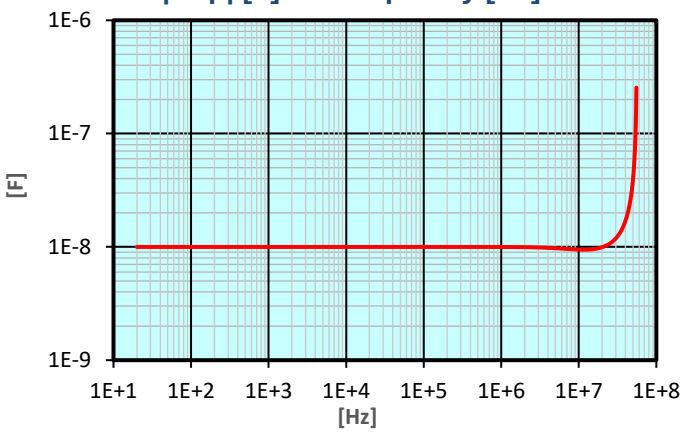




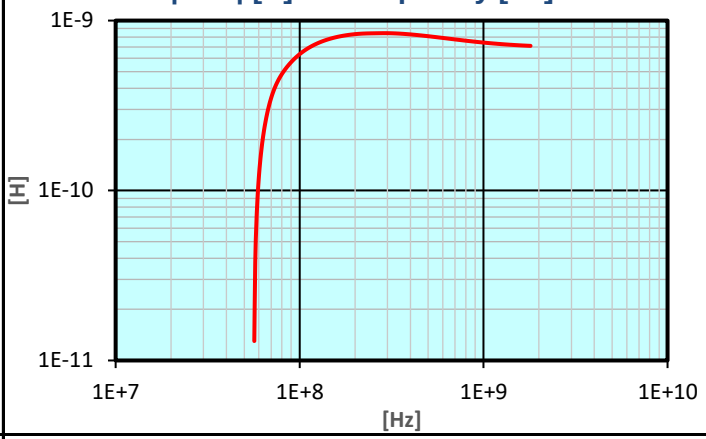
© KYOCERA AVX

## Electrical Characteristics

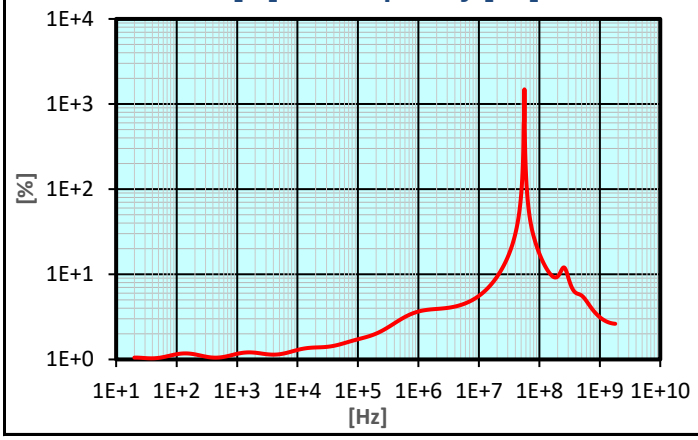
### |Cap| [F] vs Frequency [Hz]



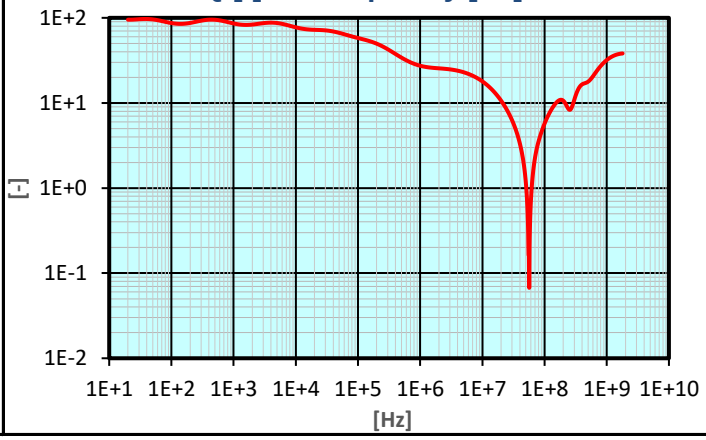

### |ESL| [H] vs Frequency [Hz]




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




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






© KYOCERA AVX

# 06033C103M4Z2A Datasheet

## (0603 25V X7R 10nF ±20% AEC-Q200 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.