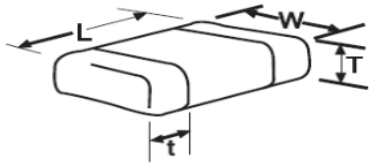
# KGM21ACG1C332FU Datasheet

**(0805 16V C0G 3.3nF ±1%)**

## Dimensions



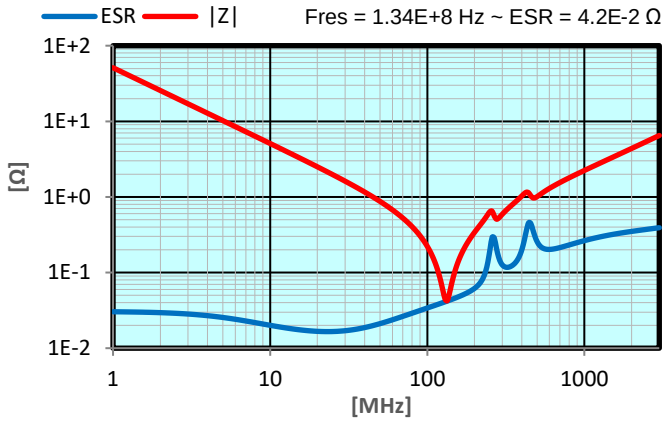

| | *millimetres (inches)* |
|---|---|
| **L** | 2.01 ± 0.20 (0.079 ± 0.008) |
| **W** | 1.25 ± 0.20 (0.049 ± 0.008) |
| **T max.** | 1.45 (0.057) |
| **t** | 0.50 ± 0.25 (0.020 ± 0.010) |

## Basic Specifications

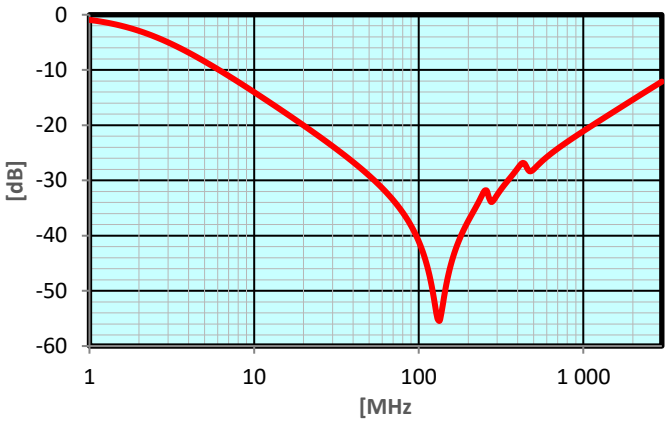
| *Item* | *Unit* | *Spec.* | *Conditions* |
|---|---|---|---|
| **Capacitance** | nF | 3.267 to 3.333 | @ 1 kHz, 1 Vrms |
| **DF** | % | 0.1 max. | @ 1 kHz, 1 Vrms |
| **IR** | GΩ | 100 | @ 16 Vdc,t =60 ± 5 s |
| **DWV** | Vdc | 40 | @ I ≤ 50mA, t ≤ 5 s |
| **Op. Temperature** | | -55 °C to +125 °C | |
| **Dielectric** | | C0G | |
| **Product Level** | | General | |
| **RoHS Compliant** | | Yes | |
| **Termination** | | Sn | |

## Electrical Characteristics

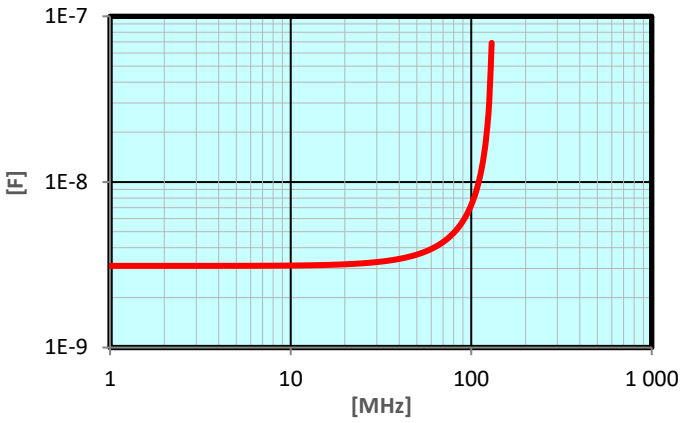
### |Z| & ESR [Ohm] vs Frequency [MHz]



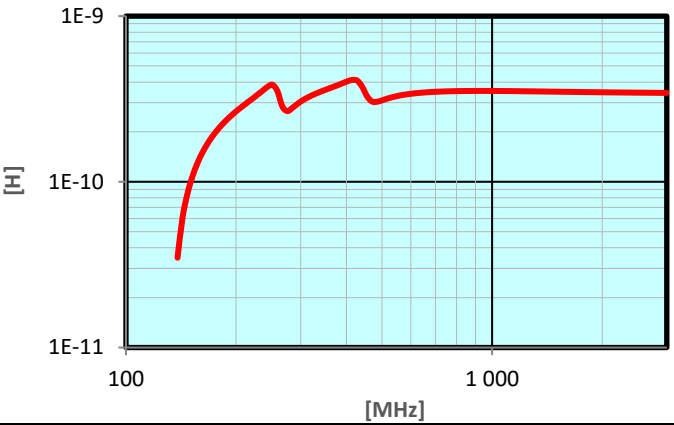

### S21 [dB] (50Ω, shunt) vs Freq. [MHz]



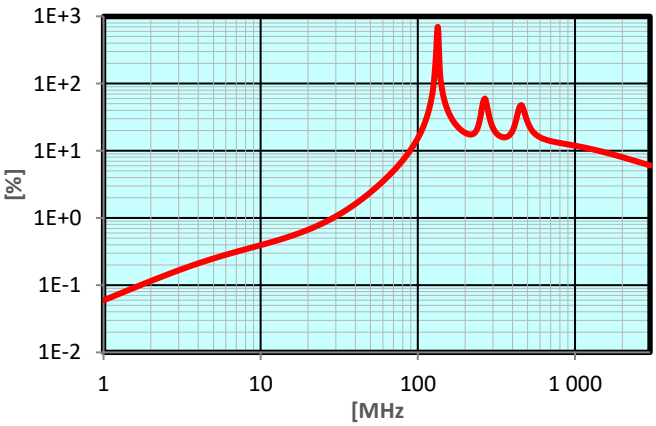

### |Cap| [F] vs Frequency [MHz]



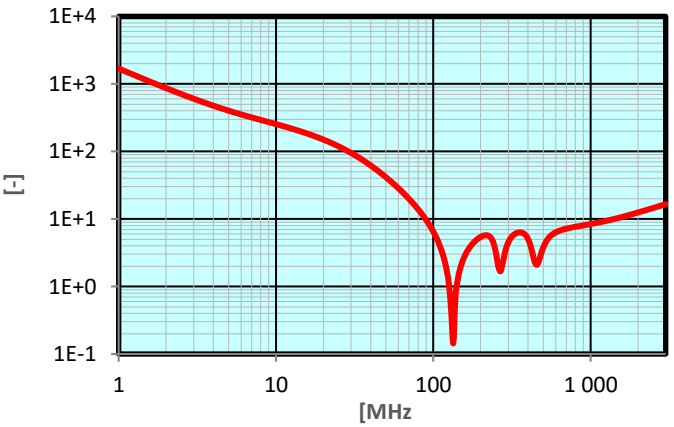

### |ESL| [H] vs Frequency [MHz]




### DF [%] vs Frequency [MHz]




### Q [-] vs Frequency [MHz]





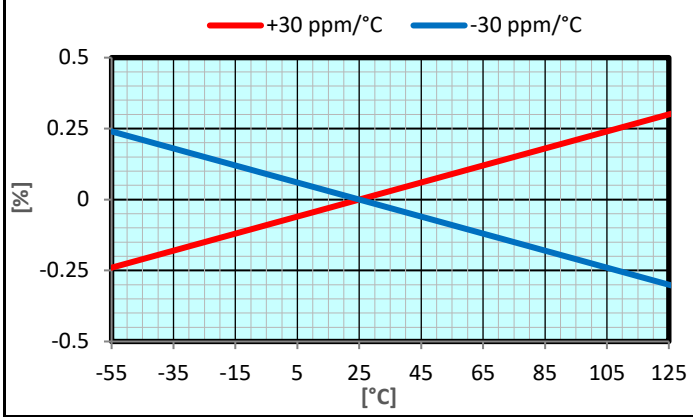
© KYOCERA AVX

# KGM21ACG1C332FU Datasheet

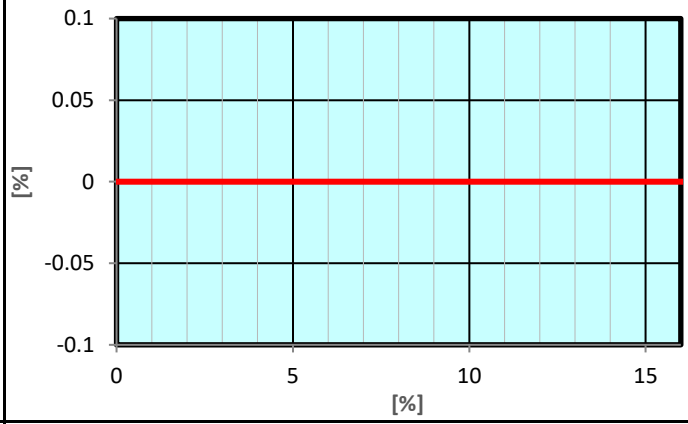
**(0805 16V C0G 3.3nF ±1%)**

## Electrical Characteristics

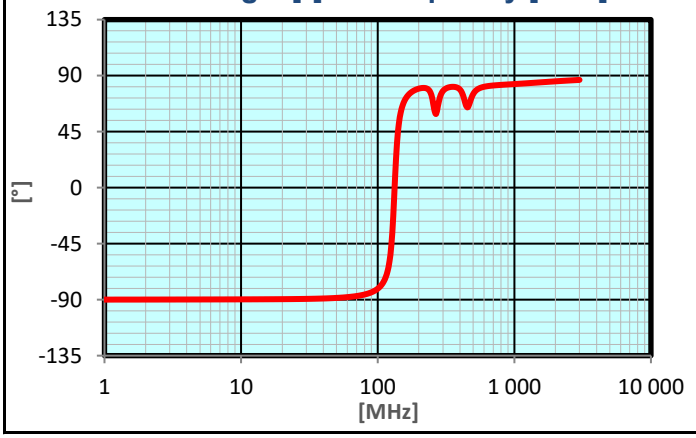
### Typ. Cap. Change [%] vs Temperature [°C] Envelope




### Cap.Change [%] vs Rated DC Voltage [%]




### Phase Angle [°] vs Frequency [MHz]




## Part Number Information

| K | G | M | 21 | | C | R5 | | 1E | | 103 | K | | T | #### |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Symbol:** | **Product Level:** | **Requirement:** | **Size:** | | **Thickness:** | **Dielectric:** | | **Voltage:** | | **Capacitance:** | **Tolerance:** | | **Packing:** | **Optional:** |
| KAVX | G General | M Standard | **Code:** | **EIA:** | See catalog | CG C0G | | **Multiplier:** | **Base:** | (2 significant digits | A ± 0.05 pF | H | | See catalog for |
| | A Automotive | U Hi-Q (Special function) | 02 | 01005 | for list of | R5 X5R | | 0 1x | A 1 | + no of zeros) | B ± 0.1 pF | T | | optional codes |
| | (AEC-Q200) | E ESD (Special function) | 03 | 0201 | codes | S6 X6S | | 1 10x | N 1.5 | | C ± 0.25 pF | U | Φ 180 (7 inch)* | |
| | M Medical | L Low inductance reverse Geometry | 05 | 0402 | | T6 X6T | | 2 100x | D 2 | **Examples:** | D ± 0.5 pF | Y | | |
| | | A Low Inductance LGA | 15 | 0603 | | R7 X7R | | 3 1000x | E 2.5 | 100 = 10 pF | F ± 1 % | V | | |
| | | F Flexiterm (Special function/structure) | 21 | 0805 | | S7 X7S | | | U 3 | 102 = 1000 pF | G ± 2 % | | | |
| | | S Flexisafe (Special function/structure) | 31 | 1206 | | T7 X7T | | | V 3.5 | 224 = 220 nF | J ± 5 % | M | | |
| | | G Gold Termination (Special Structure) | 32 | 1210 | | R8 X8R | | | G 4 | 105 = 1 µF | K ± 10 % | L | | |
| | | C IDC (Special structure) | 42 | 1808 | | L8 X8L | | | H 5 | | M ± 20 % | N | Φ 330 (13 inch)* | |
| | | Q Ultra Low ESR | 43 | 1812 | | G8 X8G | | | J 6.3 | | | K | | |
| | | | 44 | 1825 | | V5 Y5V | | | | | | S | | |
| | | | 55 | 2220 | | | | **Example:** | | | | | | |
| | | | 56 | 2225 | | | | 1E = 25V (10 x 2.5) | | | | X | Waffle pack | |
| | | | 91 | 3640 | | | | | | | | | | |

**Note:**
* See catalog for more information.

**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.