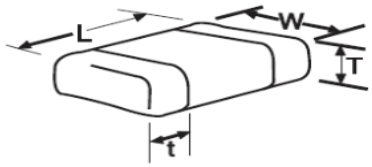
# KGM21BCG2A1R0CT Datasheet

**(0805 100V C0G 1pF ±0.25 pF)**

## Dimensions

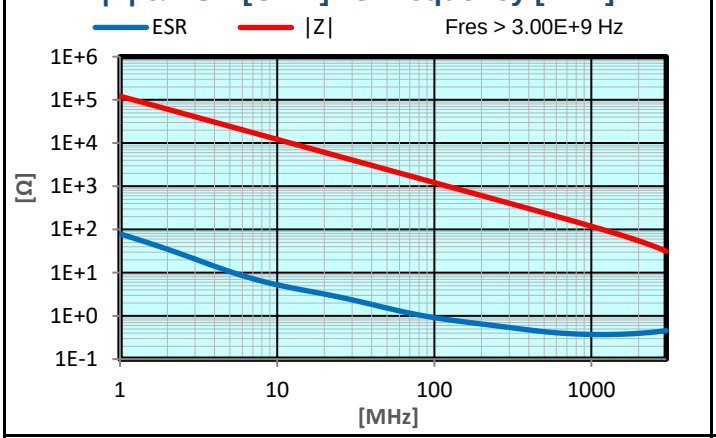


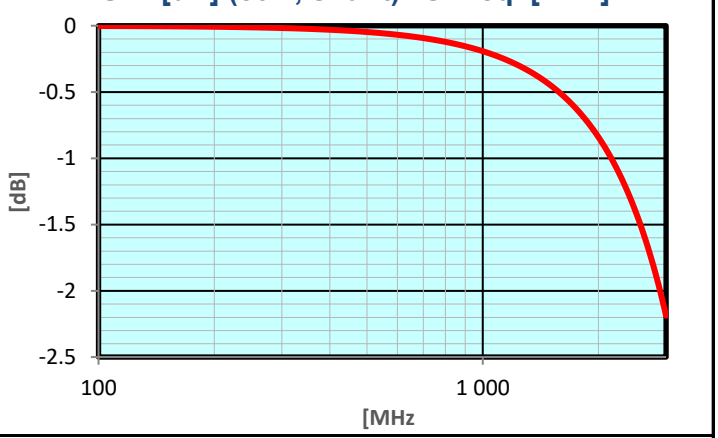

| | *millimetres (inches)* |
|---|---|
| **L** | 2.01 ± 0.20 (0.079 ± 0.008) |
| **W** | 1.25 ± 0.20 (0.049 ± 0.008) |
| **T max.** | 0.94 (0.037) |
| **t** | 0.50 ± 0.25 (0.020 ± 0.010) |

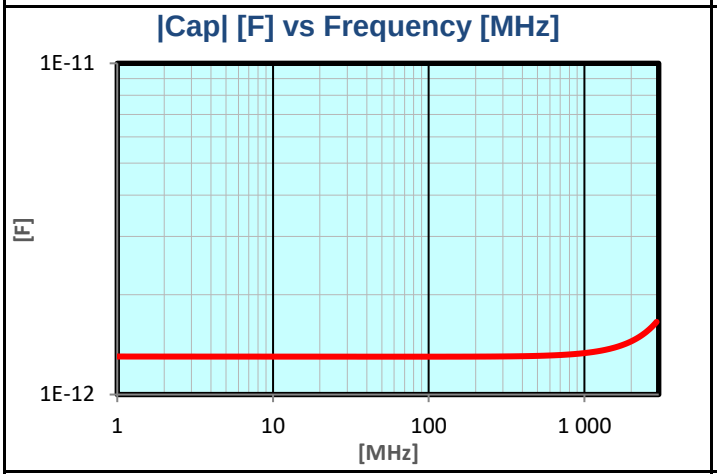
## Basic Specifications

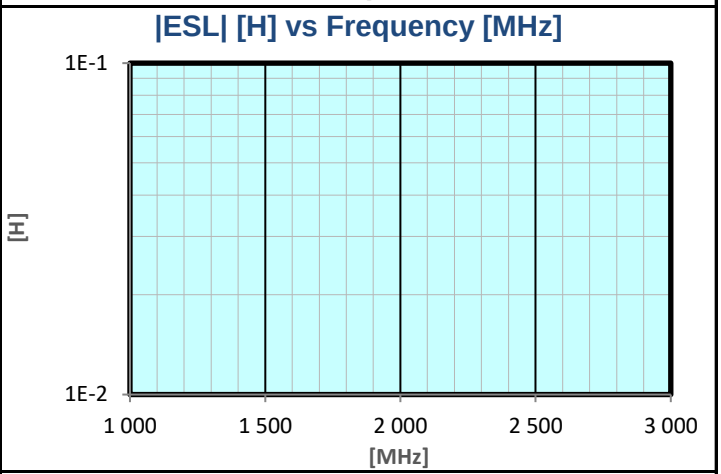
| *Item* | *Unit* | *Spec.* | *Conditions* |
|---|---|---|---|
| **Capacitance** | pF | 0.75 to 1.25 | @ 1 MHz, 1 Vrms |
| **DF** | % | 0.238 max. | @ 1 MHz, 1 Vrms |
| **IR** | GΩ | 100 | @ 100 Vdc,t =60 ± 5 s |
| **DWV** | Vdc | 250 | @ I ≤ 50mA, t ≤ 5 s |
| **Op. Temperature** | | -55 °C to +125 °C | |
| **Dielectric** | | C0G | |
| **Product Level** | | General | |
| **RoHS Compliant** | | Yes | |
| **Termination** | | Sn | |

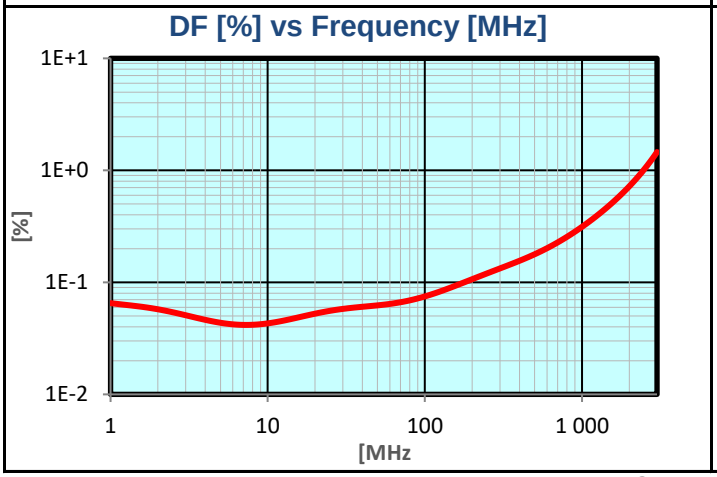
## Electrical Characteristics

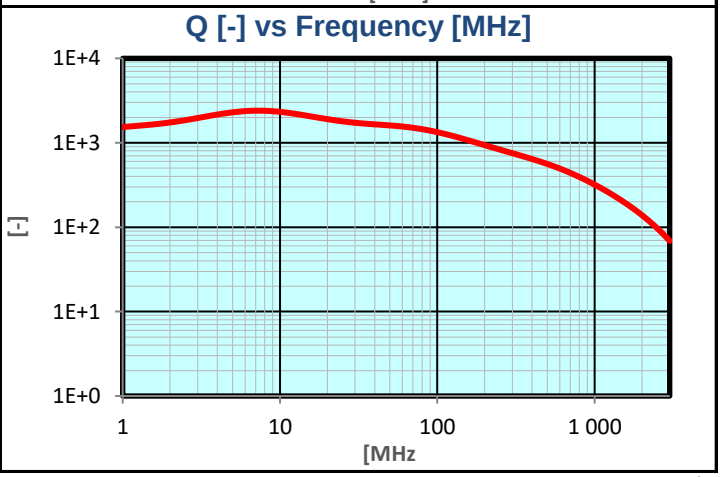




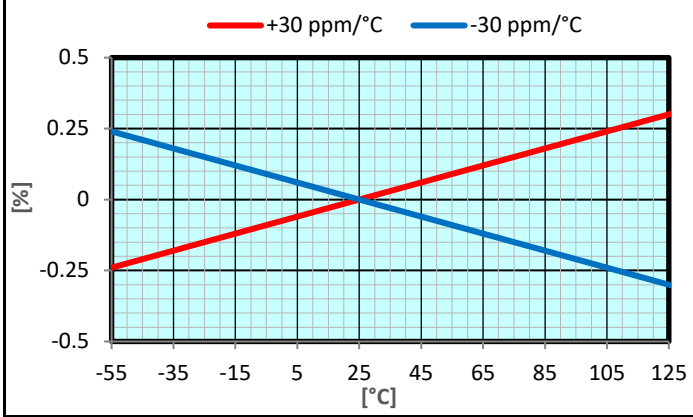
© KYOCERA AVX

# KGM21BCG2A1R0CT Datasheet

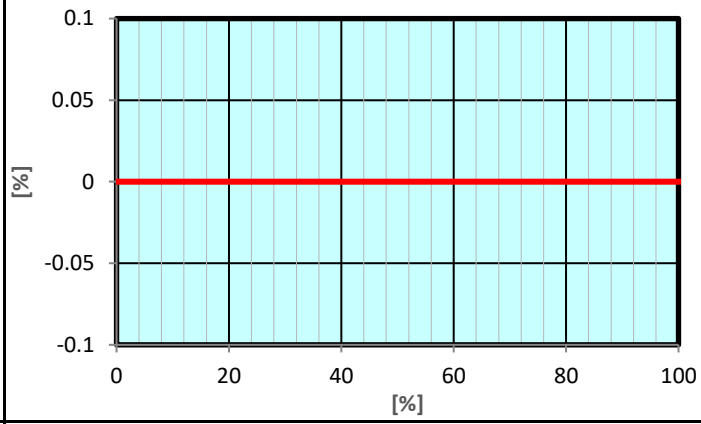
**(0805 100V C0G 1pF ±0.25 pF)**

## Electrical Characteristics

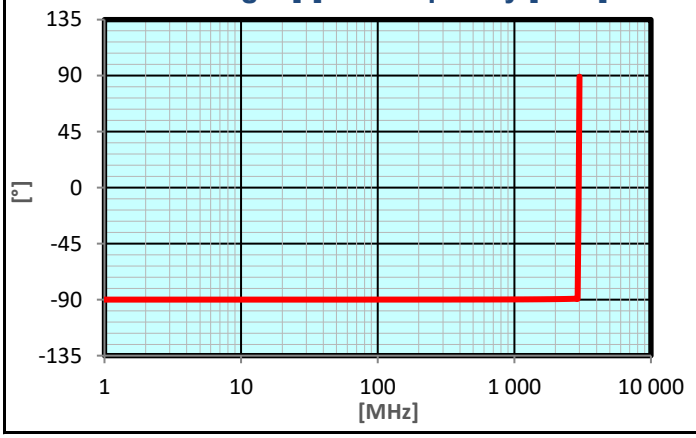
### Typ. Cap. Change [%] vs Temperature [°C] Envelope




### 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.