

KAF05AR71E391MH Datasheet

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



(0402 25 V X7R 390pF $\pm 20\%$ AEC-Q200 FLEXITERM®)

Dimensions

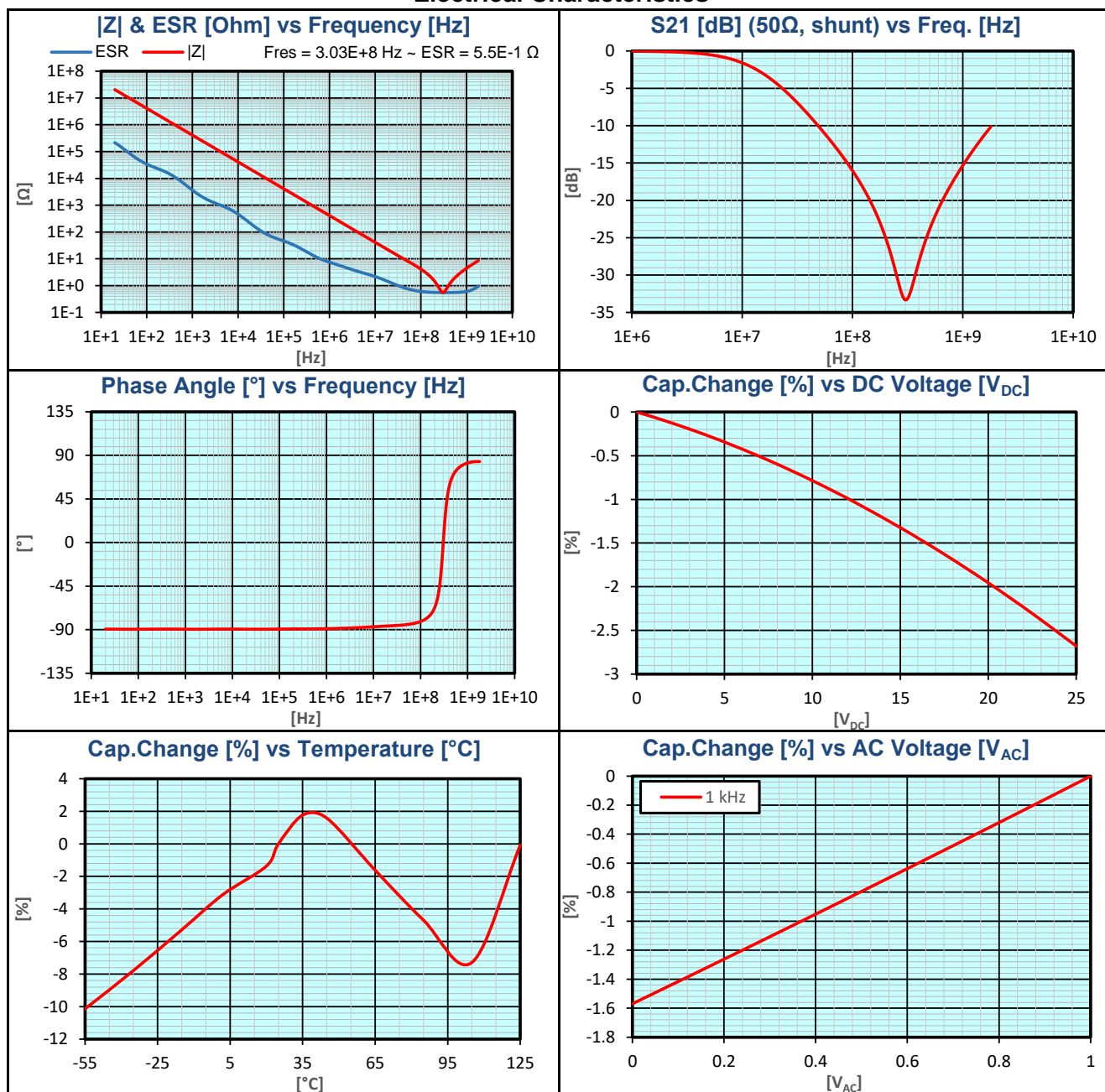


| | millimetres | inches |
|--------|-----------------|-------------------|
| L | 1 ± 0.1 | 0.039 ± 0.004 |
| W | 0.5 ± 0.1 | 0.02 ± 0.004 |
| T max. | 0.56 | 0.022 |
| t | 0.25 ± 0.15 | 0.01 ± 0.006 |

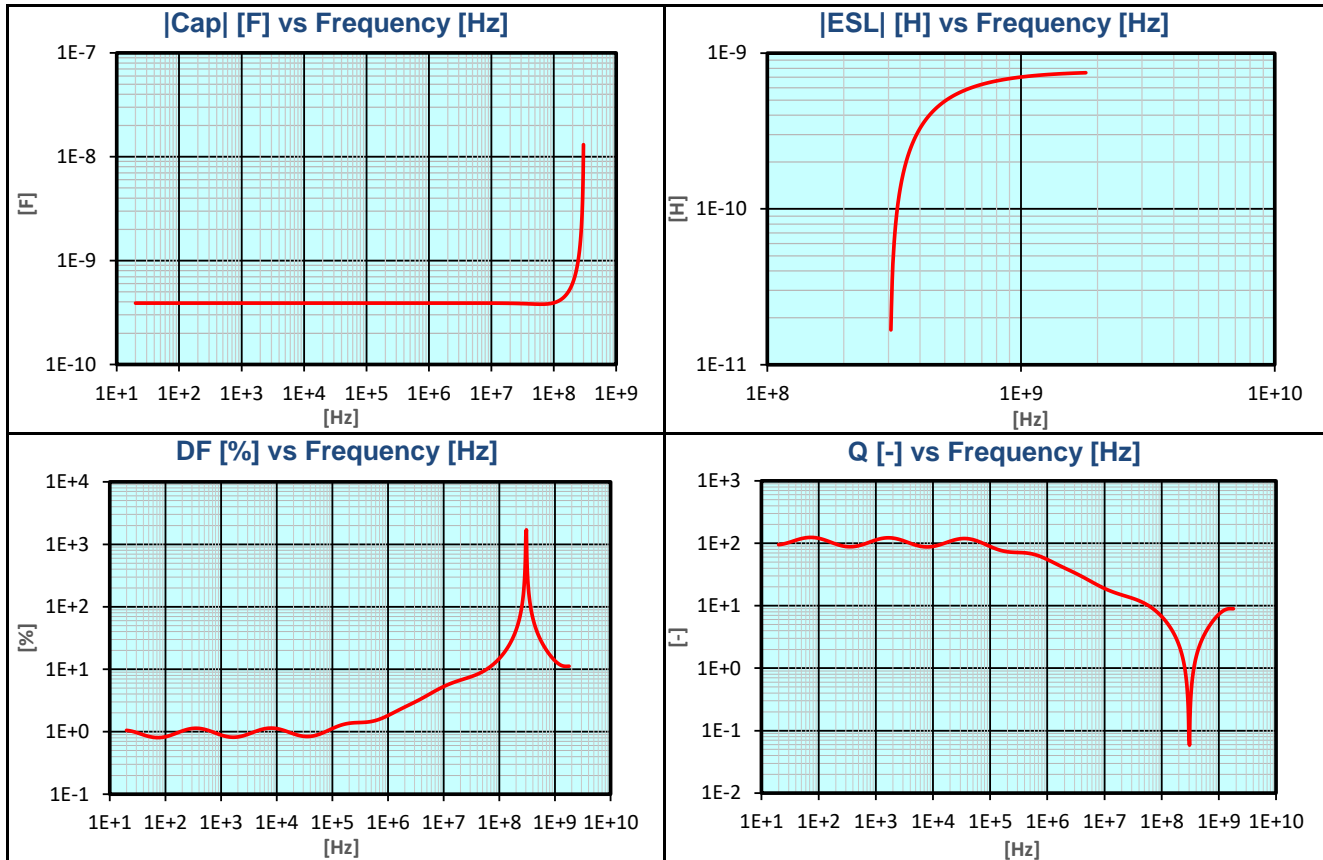
Basic Specifications

| Item | Unit | Spec. | Conditions |
|-----------------------|------|-----------------|---------------------|
| Capacitance | pF | 312 to 468 | @ 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 | |
| Product Level | | AEC-Q200 | |
| RoHS Compliant | | Yes | |
| Termination | | FLEXITERM® | |

Electrical Characteristics



Electrical Characteristics



KAF05AR71E391MH Datasheet



(0402 25 V X7R 390pF ±20% AEC-Q200 FLEXITERM®)

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 + no of zeros) | A ± 0.05 pF | H | See catalog for optional codes |
| A Automotive (AEC-Q200) | U Hi-Q (Special function) | E ESD (Special function) | 02 01005 | for list of codes | R5 X5R | 0 1x A 1 | | B ± 0.1 pF | T | |
| M Medical | L Low Inductance reverse Geometry | A Low Inductance LGA | 03 0201 | | S6 X6S | 1 10x N 1.5 | | C ± 0.25 pF | U | |
| | F Flexitem (Special function/structure) | S Flexisafe (Special function/structure) | 05 0402 | | T6 X6T | 2 100x D 2 | | D ± 0.5 pF | Y | |
| | A Low Inductance LGA | G Gold Termination (Special Structure) | 15 0603 | | R7 X7R | 3 1000x E 2.5 | | F ± 1 % | V | Φ 180 (7 inch)* |
| | S Flexisafe (Special function/structure) | C IDC (Special structure) | 21 0805 | | S7 X7S | U 3 | Examples: 100 = 10 pF | G ± 2 % | M | |
| | S Flexisafe (Special function/structure) | Q Ultra Low ESR | 31 1206 | | T7 X7T | V 3.5 | 102 = 1000 pF | J ± 5 % | L | |
| | G Gold Termination (Special Structure) | | 32 1210 | | R8 X8R | G 4 | 224 = 220 nF | K ± 10 % | N | |
| | C IDC (Special structure) | | 42 1808 | | L8 X8L | H 5 | 105 = 1 μF | M ± 20 % | K | Φ 330 (13 inch)* |
| | Q Ultra Low ESR | | 43 1812 | | G8 X8G | J 6.3 | | | S | |
| | | | 44 1825 | | V5 Y5V | | | | | |
| | | | 55 2220 | | | | Example: 1E = 25V (10 x 2.5) | | | |
| | | | 56 2225 | | | | | | 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 believed 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.