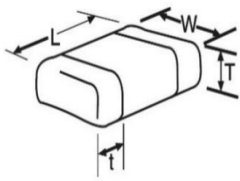


KAM05CT70J225KH Datasheet

(0402 6.3 V X7T 2.2uF ±10%)

Dimensions



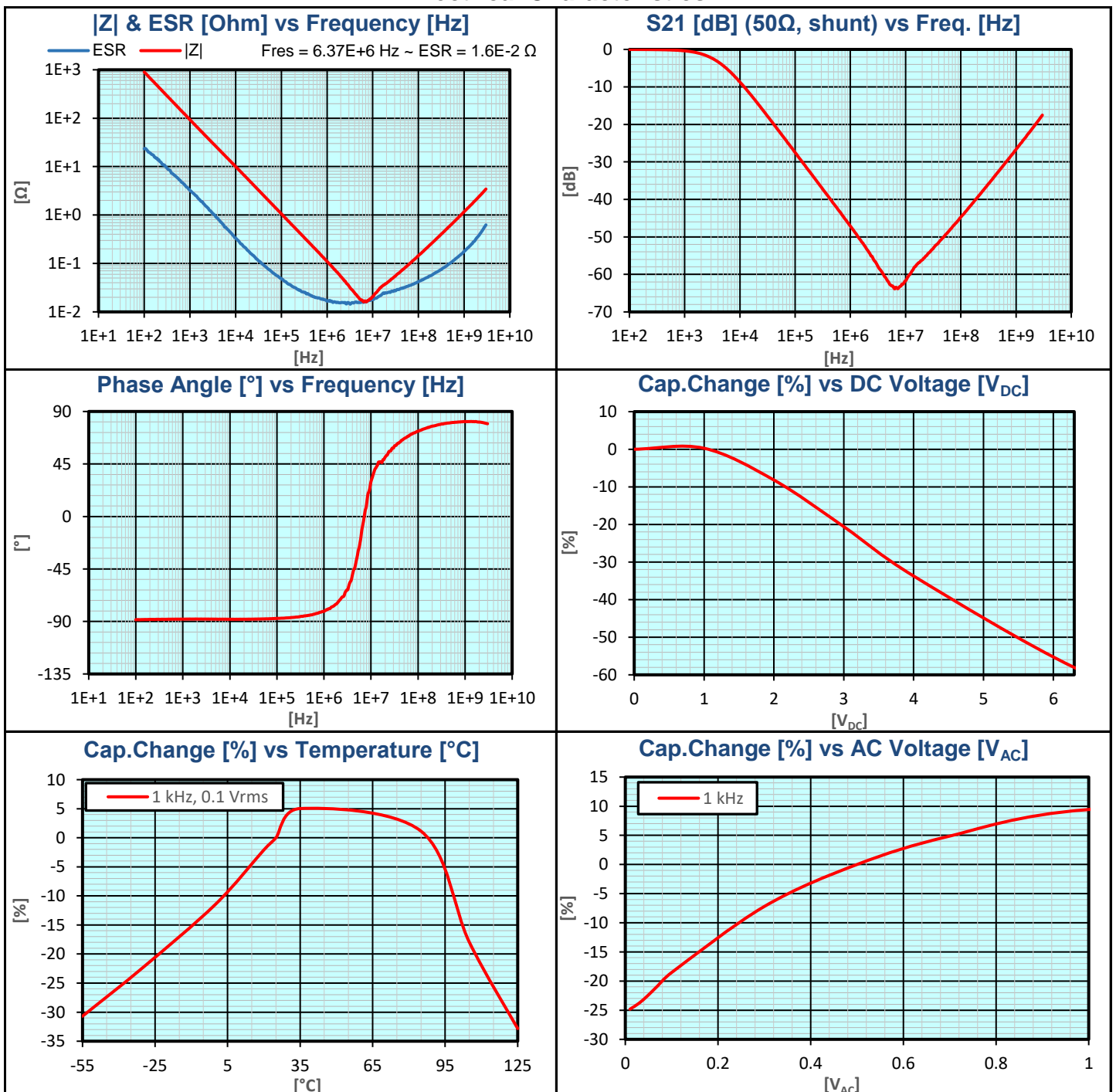
| | millimetres | inches |
|--------|-------------|---------------|
| L | 1 ± 0.2 | 0.039 ± 0.008 |
| W | 0.5 ± 0.2 | 0.02 ± 0.008 |
| T max. | 0.7 | 0.028 |
| t | 0.25 ± 0.1 | 0.01 ± 0.004 |

Basic Specifications

| Item | Unit | Spec. | Conditions |
|-------------|------|--------------|---------------------|
| Capacitance | uF | 1.98 to 2.42 | @ 1 kHz, 0.5 Vrms |
| DF | % | 12.5 max. | @ 1 kHz, 0.5 Vrms |
| IR | MΩ | 22.7 min. | @ 6.3 Vdc, t = 60 s |

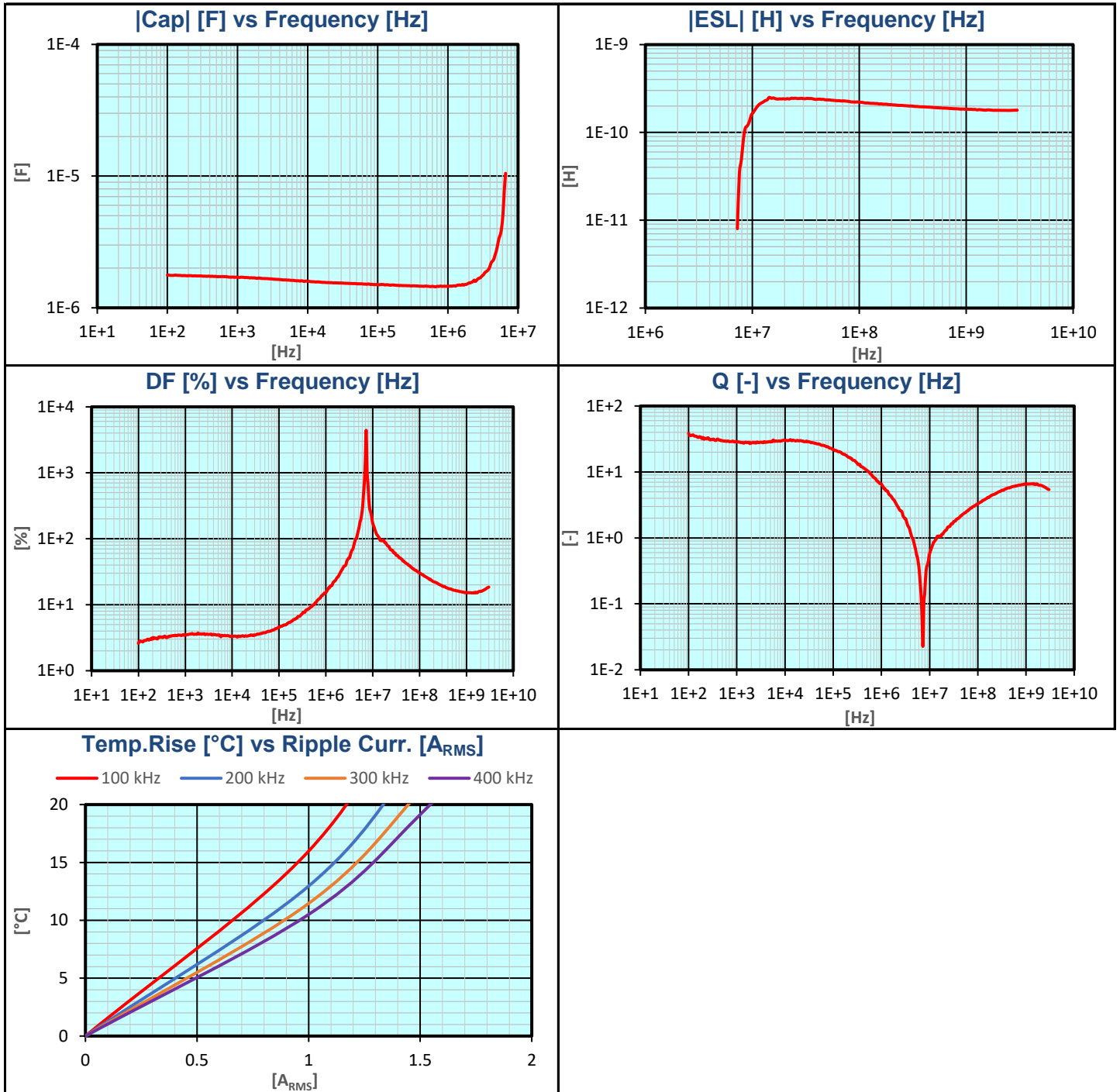
| | |
|-----------------------|-----------------|
| Operating Temperature | -55°C to +125°C |
| Dielectric | X7T |
| Product Level | AEC-Q200 |
| RoHS Compliant | Yes |
| Termination | Sn |

Electrical Characteristics



(0402 6.3 V X7T 2.2 μ F \pm 10%)

Electrical Characteristics



KAM05CT70J225KH Datasheet

(0402 6.3 V X7T 2.2uF ±10%)

Part Number Information

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