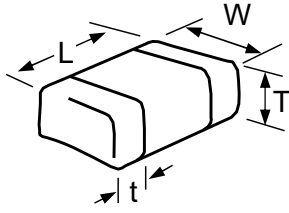


# KAM05CT70G475K#

( 0402, 4.0V, X7T, 4.7 $\mu$ F, +/-10 %, AEC-Q200, Sn Term )  
Multilayer Ceramic Chip Capacitor Datasheet



## DIMENSIONS



|        | millimetres   | inches           |
|--------|---------------|------------------|
| L      | 1.0 $\pm$ 0.2 | 0.04 $\pm$ 0.008 |
| W      | 0.5 $\pm$ 0.2 | 0.02 $\pm$ 0.008 |
| T max. | 0.70          | 0.028            |
| t      | 0.15 to 0.35  | 0.006 to 0.014   |

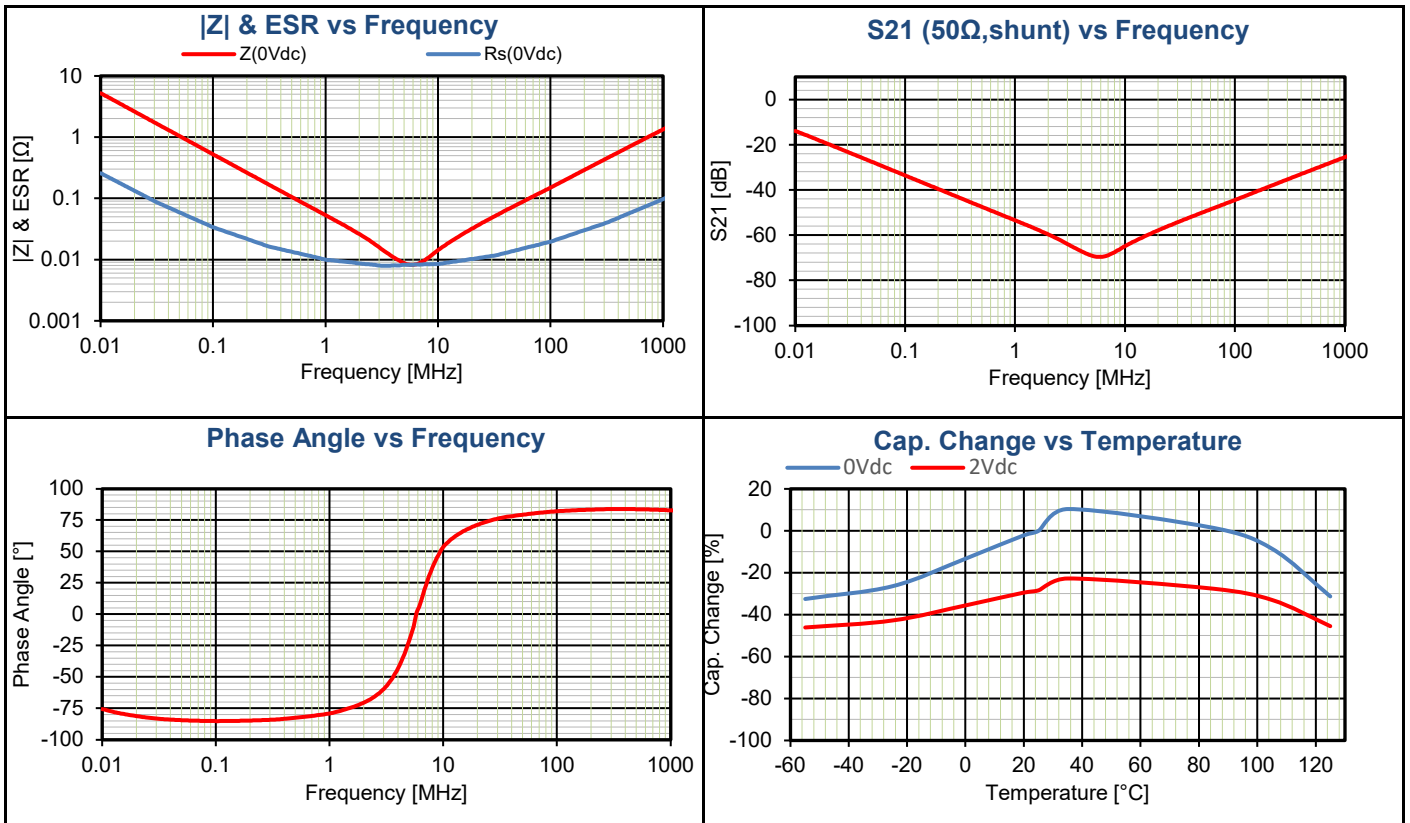
\*Inch is for reference only.

## BASIC SPECIFICATIONS

| Item                  | Spec.            | Conditions                  |
|-----------------------|------------------|-----------------------------|
| Rated Voltage         | 4.0 V            |                             |
| Capacitance           | 4.7 $\mu$ F      | 1kHz, 0.5Vrms               |
| Capacitance Tolerance | +/-10 %          |                             |
| DF Max                | 12.5 %           | 1kHz, 0.5Vrms               |
| IR Min                | 10.64 M $\Omega$ | 4.0Vdc, t=60s               |
| DWV                   | 10 Vdc           | I $\leq$ 50mA, t $\leq$ 5 s |

|                       |                                    |
|-----------------------|------------------------------------|
| Case Size EIA (JIS)   | 0402(1005)                         |
| Operating Temperature | -55°C to +125°C                    |
| Dielectric            | X7T                                |
| Grade                 | AEC-Q200                           |
| RoHS Compliant        | Yes                                |
| Termination           | Sn                                 |
| Packaging             | T&R 7in (180mm) & T&R 13in (330mm) |

## ELECTRICAL CHARACTERISTICS

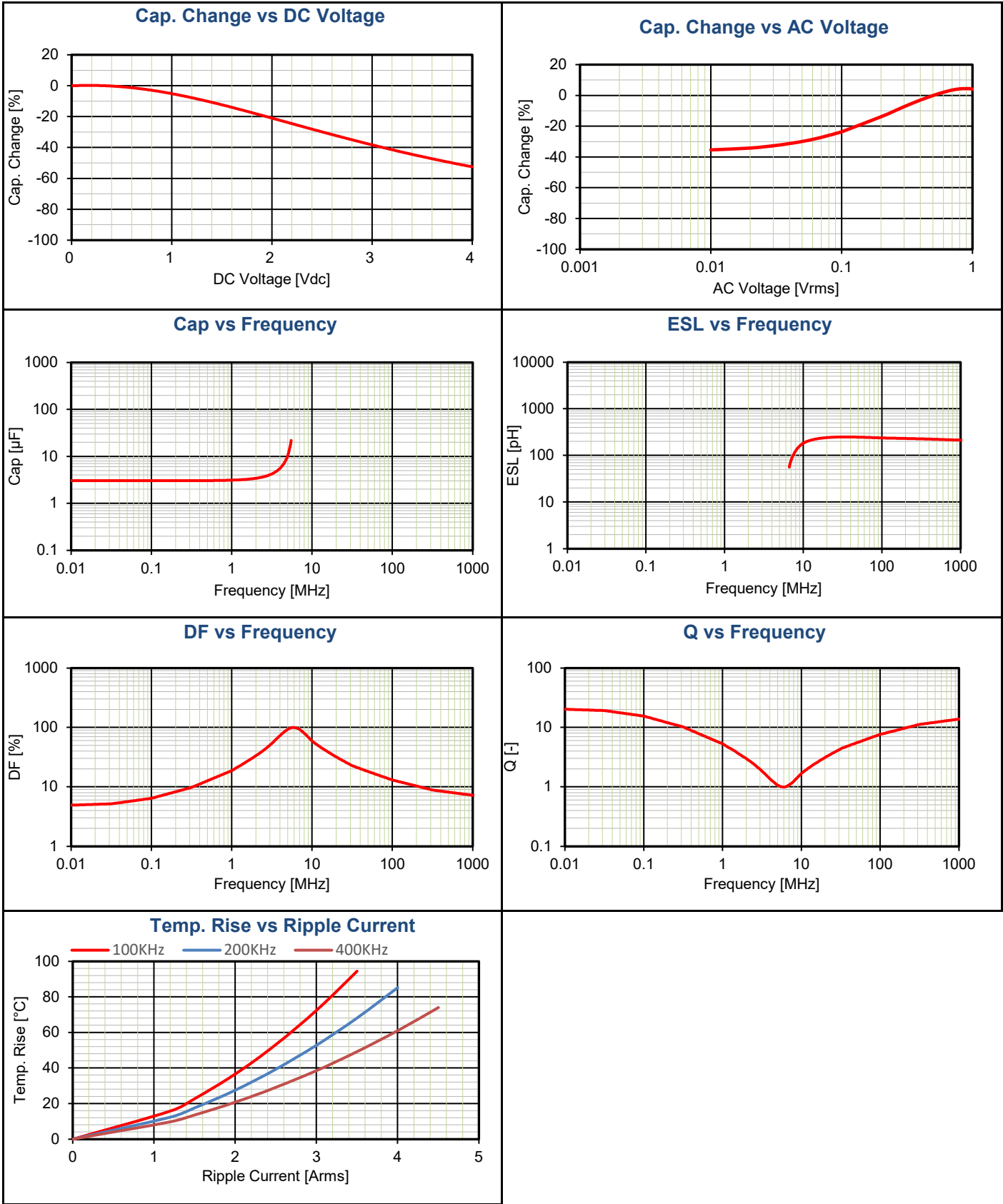


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## ELECTRICAL CHARACTERISTICS



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## PART NUMBER INFORMATION

| K                                                                                                                                                                                    | A  | M                                                                                                                                                                                                     | 05 | C  | T7                                                                                                                                                                                                                                                                          | 0G | 475 | K                                                                                                                                                                                       | #   | □□□□ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| 1.                                                                                                                                                                                   | 2. | 3.                                                                                                                                                                                                    | 4. | 5. | 6.                                                                                                                                                                                                                                                                          | 7. | 8.  | 9.                                                                                                                                                                                      | 10. | 11.  |
| <b>1.Symbol</b><br>KAVX                                                                                                                                                              |    | <b>5.Thickness</b><br>See catalog<br>for list of codes                                                                                                                                                |    |    | <b>8.Capacitance</b><br><br>Capacitance expressed in pF<br><br>2 significant digits<br>+ No. of zeros<br><br>For Values < 10pF Letter R<br>denotes decimal point<br><br><b>Example</b><br>R50 0.5pF<br>1R0 1pF<br>100 10pF<br>101 100pF<br>103 10nF<br>105 1μF<br>107 100μF |    |     | <b>10.Packing</b><br><br><b>T&amp;R</b> 180mm(7in)<br><br>H<br>T<br>U<br>Y<br>V<br>P<br>Q<br><br><b>T&amp;R</b> 330mm(13in)<br><br>M<br>L<br>N<br>K<br>S<br>W<br><br><b>Waffle</b><br>X |     |      |
| <b>2.Grade</b><br><br>G General<br>A Automotive<br>(AEC-Q200)<br>M Medical                                                                                                           |    | <b>6.Dielectric</b><br>CG C0G<br>CH C0H<br>R5 X5R<br>S6 X6S<br>T6 X6T<br>R7 X7R<br>S7 X7S<br>T7 X7T<br>R8 X8R<br>L8 X8L<br>G8 X8G<br>V5 Y5V<br>K7 X7R(KAVX)                                           |    |    | <b>9.Tolerance</b><br>A +/-0.05pF<br>B +/-0.1pF<br>C +/-0.25pF<br>D +/-0.5pF<br>F +/-1%<br>G +/-2%<br>J +/-5%<br>K +/-10%<br>M +/-20%<br>Z +80/-20%                                                                                                                         |    |     | <b>11.Option</b><br><br>See catalog for<br>optional codes                                                                                                                               |     |      |
| <b>3.Requirement</b><br>M Standard<br>U Hi-Q<br>E ESD<br>T Low Profile<br>L Low Inductance<br>A Low Inductance<br>(LGA)<br>F Flexiterm®<br>S Flexisafe<br>Q Ultra Low ESR<br>N 3term |    | <b>7.Voltage</b><br><b>Multiplier Base</b><br><br>0 1x A 1<br>1 10x N 1.5<br>2 100x C 1.6<br>3 1000x D 2<br>E 2.5<br>U 3<br>V 3.5<br>G 4<br>H 5<br>J 6.3<br><br><b>Example</b><br>1E = 25V (10 x 2.5) |    |    |                                                                                                                                                                                                                                                                             |    |     |                                                                                                                                                                                         |     |      |
| <b>4.Size</b><br><br>02 01005<br>03 0201<br>05 0402<br>15 0603<br>21 0805<br>31 1206<br>32 1210<br>42 1808<br>43 1812<br>44 1825<br>55 2220<br>56 2225<br>91 3640                    |    |                                                                                                                                                                                                       |    |    |                                                                                                                                                                                                                                                                             |    |     |                                                                                                                                                                                         |     |      |

Please check catalog for part number availability

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.