

## 阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

## Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

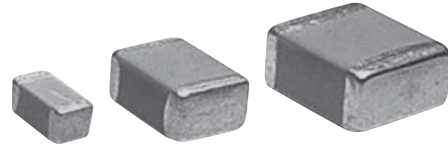
## NTS Series / NTF Series



Temperature cycle : 1000 cycles

### ◆FEATURES

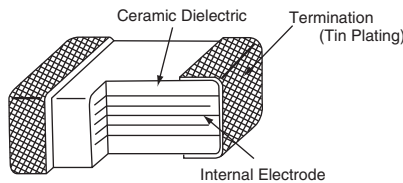
1. Large capacitance by small size.
2. Excellent noise absorption.
3. High permissible ripple current capability.
4. NTF: Temperature cycle : 1000 cycles.



### ◆APPLICATIONS

1. Smoothing circuit of DC-DC converters.
2. On-board power supplies.
3. Voltage regulators for computers.
3. Noise suppressor for various kinds of equipments.
4. High reliability equipments.

### ◆CONSTRUCTION



### ◆RATINGS

|                                |                                 |
|--------------------------------|---------------------------------|
| 1. Category Temperature Range  | -55 to +125°C                   |
| 2. Rated Voltage Range         | 25, 50, 100, 250V <sub>dc</sub> |
| 3. Rated Capacitance Range     | 0.033 to 33μF                   |
| 4. Rated Capacitance Tolerance | M (±20%) : Standard, K (±10%)   |
| 5. Temperature Characteristics | X7R                             |
| 6. Rated Ripple Current        | See No.5 on the following table |

### ◆SPECIFICATIONS

| No.         | Items                 | Specification  | Test Condition  |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
|-------------|-----------------------|--|---|-----------|----------------------|----------------------|-------------|-----------------------|-------------------------|-----------|----------|----------|---|-----------------------|-------------------------|
| 1           | Withstand Voltage     | No abnormality.  | 250% of rated voltage shall be applied for 5 seconds.<br>(Only 250V <sub>dc</sub> product : 475V)   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| 2           | Insulation Resistance | 100/C <sub>R</sub> (MΩ) or 4000(MΩ)<br>whichever is less.  | Rated voltage shall be applied for 60±5 seconds at<br>temperature 25±2°C.   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| 3           | Rated Capacitance     | Within specified tolerance.  | <table border="1"> <tr> <td></td> <td>C<sub>R</sub>≤10μF</td> <td>C<sub>R</sub>&gt;10μF</td> </tr> <tr> <td>Temperature</td> <td colspan="2">25±2°C</td> </tr> <tr> <td>Frequency</td> <td>1±0.1kHz</td> <td>120±12Hz</td> </tr> <tr> <td>Voltage</td> <td>1±0.2V<sub>rms</sub></td> <td>0.5±0.2V<sub>rms</sub></td> </tr> </table> |           | C <sub>R</sub> ≤10μF | C <sub>R</sub> >10μF | Temperature | 25±2°C                |                         | Frequency | 1±0.1kHz | 120±12Hz | Voltage   | 1±0.2V <sub>rms</sub> | 0.5±0.2V <sub>rms</sub> |
|             | C <sub>R</sub> ≤10μF  | C <sub>R</sub> >10μF   |   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| Temperature | 25±2°C                |  |   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| Frequency   | 1±0.1kHz              | 120±12Hz   |   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| Voltage     | 1±0.2V <sub>rms</sub> | 0.5±0.2V <sub>rms</sub>  |   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| 4           | Dissipation Factor    | 5.0% maximum.  | <table border="1"> <tr> <td>Frequency</td> <td>1±0.1kHz</td> <td>120±12Hz</td> </tr> <tr> <td>Voltage</td> <td>1±0.2V<sub>rms</sub></td> <td>0.5±0.2V<sub>rms</sub></td> </tr> </table>   | Frequency | 1±0.1kHz             | 120±12Hz             | Voltage     | 1±0.2V <sub>rms</sub> | 0.5±0.2V <sub>rms</sub> |           |          |          |   |                       |                         |
| Frequency   | 1±0.1kHz              | 120±12Hz   |   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| Voltage     | 1±0.2V <sub>rms</sub> | 0.5±0.2V <sub>rms</sub>  |   |           |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| 5           | Rated Ripple Current  | <table border="1"> <tr> <td>Size code</td> <td>31</td> <td>32</td> <td>43</td> <td>55</td> </tr> <tr> <td>Arms</td> <td>0.3</td> <td>0.5</td> <td>1.0</td> <td>2.0</td> </tr> </table> | Size code   | 31        | 32                   | 43                   | 55          | Arms                  | 0.3                     | 0.5       | 1.0      | 2.0      | 10kHz~1MHz (sine curve)<br>Ripple voltage V <sub>p</sub> shall be less than<br>the rated voltage. |                       |                         |
| Size code   | 31                    | 32   | 43  | 55        |                      |                      |             |                       |                         |           |          |          |   |                       |                         |
| Arms        | 0.3                   | 0.5  | 1.0   | 2.0       |                      |                      |             |                       |                         |           |          |          |   |                       |                         |

## NTS Series / NTF Series

### ◆SPECIFICATIONS

| No.                | Items                             | Specification  | Test Condition  |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
|--------------------|-----------------------------------|--|---|--------|------------------|----------|--------------------|------------------------------|---------|--------------|------------------|--------|---|------------------------------|------|---|------------------|--------|
| 6                  | Adhesion                          | No visible damage.   | <p>Substrate<br/>5N (0.51kgf) for 10±1 seconds<br/>Capacitor</p>  |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 7                  | Bend strength of the face plating | Appearance : No visible damage.<br>$\Delta C/C : \pm 15\%$   | <p>The substrate shall be bend at a rate of 1mm/s for 5 seconds.</p> <p>Press<br/>Press bar<br/>Capacitor<br/>Substrate<br/>Support<br/>Bending capability*</p> <p>*Bending capability<br/>NTS : 1mm<br/>NTF : 1mm or 2mm</p>   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 8                  | Solderability                     | Min. 75% of surface of the termination shall be covered with new solder  | <table border="1"> <thead> <tr> <th>Solder</th> <th>Pb Free</th> <th>Eutectic</th> </tr> </thead> <tbody> <tr> <td>Solder Temperature</td> <td>245±5°C</td> <td>235±5°C</td> </tr> <tr> <td>Dipping Time</td> <td colspan="2">2±0.5sec.</td> </tr> </tbody> </table>  | Solder | Pb Free          | Eutectic | Solder Temperature | 245±5°C                      | 235±5°C | Dipping Time | 2±0.5sec.        |        |   |                              |      |   |                  |        |
| Solder             | Pb Free                           | Eutectic   |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| Solder Temperature | 245±5°C                           | 235±5°C  |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| Dipping Time       | 2±0.5sec.                         |  |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 9                  | Resistance to Soldering Heat      | Appearance : No visible damage.<br>$\Delta C/C : \pm 15\%$<br>D.F. : To meet the initial specification.<br>I.R. : To meet the initial specification. | <p>Solder Temperature : 260±5°C<br/>Dipping Time : 2±0.5 seconds</p>  |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 10                 | Temperature Cycle                 | Appearance : No visible damage.<br>$\Delta C/C : \pm 15\%$<br>D.F. : To meet the initial specification.<br>I.R. : To meet the initial specification. | <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>(min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Min. Category temperature ±3</td> <td>30±3</td> </tr> <tr> <td>2</td> <td>Room temperature</td> <td>3 max.</td> </tr> <tr> <td>3</td> <td>Max. Category temperature ±3</td> <td>30±3</td> </tr> <tr> <td>4</td> <td>Room temperature</td> <td>3 max.</td> </tr> </tbody> </table> <p>For above temperature cycle.<br/>NTS : For 5 cycles<br/>NTF : For 1000 cycles</p> | Step   | Temperature (°C) | (min.)   | 1                  | Min. Category temperature ±3 | 30±3    | 2            | Room temperature | 3 max. | 3 | Max. Category temperature ±3 | 30±3 | 4 | Room temperature | 3 max. |
| Step               | Temperature (°C)                  | (min.)   |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 1                  | Min. Category temperature ±3      | 30±3   |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 2                  | Room temperature                  | 3 max.   |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 3                  | Max. Category temperature ±3      | 30±3   |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 4                  | Room temperature                  | 3 max.   |   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 11                 | Humidity Load Life                | Appearance : No abnormality.<br>$\Delta C/C : \pm 15\%$<br>D.F. : 10% maximum<br>I.R. : 25/C <sub>R</sub> (MΩ) or 1000(MΩ) whichever is less.        | <p>Temperature : 40±2°C<br/>Humidity : 90 to 95%RH<br/>Voltage : Rated voltage<br/>Time : 500±<sup>24</sup><sub>0</sub>hours</p>  |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |
| 12                 | Endurance                         | Appearance : No abnormality.<br>$\Delta C/C : \pm 15\%$<br>D.F. : 10% maximum<br>I.R. : 50/C <sub>R</sub> (MΩ) or 1000(MΩ) whichever is less.        | <p>Temperature : 125±3°C<br/>Voltage : Rated voltage<br/>Time : 1000±<sup>48</sup><sub>0</sub>hours</p>   |        |                  |          |                    |                              |         |              |                  |        |   |                              |      |   |                  |        |

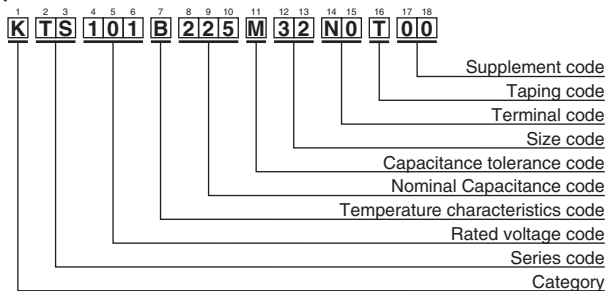
\*C<sub>R</sub> : Rated Capacitance(μF)

### ◆STANDARD RATINGS

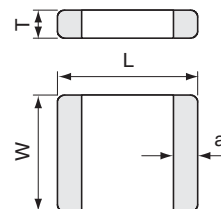
| Rated voltage (Vdc) | Rated Capacitance (μF) | Dimensions(mm)     |         |         |         | Maximum ripple current (Arms) | Part Number        | Previous Part Number (Just for your reference) |                 |
|---------------------|------------------------|--------------------|---------|---------|---------|-------------------------------|--------------------|--|-----------------|
|                     |                        | L                  | W       | Tmax.   | a       |                               |                    |  |                 |
| 25                  | 1.0                    | 3.2±0.2            | 1.6±0.2 | 1.8     | 0.5±0.3 | 0.3                           | KTS250B105M31N0T00 | NTS30X7R1E105MT                                |                 |
|                     | 1.5                    |                    |         |         |         |                               | KTS250B155M31N0T00 | NTS30X7R1E155MT                                |                 |
|                     | 2.2                    |                    |         |         |         |                               | KTS250B225M31N0T00 | NTS30X7R1E225MT                                |                 |
|                     | 3.3                    | 3.2±0.4            | 2.5±0.3 | 2.6     | 0.6±0.3 | 0.5                           | KTS250B335M32N0T00 | NTS40X7R1E335MT                                |                 |
|                     | 4.7                    |                    |         |         |         |                               | KTS250B475M32N0T00 | NTS40X7R1E475MT                                |                 |
|                     | 6.8                    |                    |         |         |         |                               | KTS250B685M32N0T00 | NTS40X7R1E685MT                                |                 |
|                     | 10                     |                    |         |         |         |                               | KTS250B106M43N0T00 | NTS50X7R1E106MT                                |                 |
|                     | 15                     | 4.5±0.4            | 3.2±0.4 | 2.8     | 0.6±0.3 | 1.0                           | KTS250B156M43N0T00 | NTS50X7R1E156MT                                |                 |
|                     | 22                     |                    |         |         |         |                               | KTS250B226M55N0T00 | NTS60X7R1E226MT                                |                 |
|                     | 33                     |                    |         |         |         |                               | KTS250B336M55N0T00 | NTS60X7R1E336MT                                |                 |
| 50                  | 0.33                   | 3.2±0.2            | 1.6±0.2 | 1.8     | 0.5±0.3 | 0.3                           | KTS500B334M31N0T00 | NTS30X7R1H334MT                                |                 |
|                     | 0.47                   |                    |         |         |         |                               | KTS500B474M31N0T00 | NTS30X7R1H474MT                                |                 |
|                     | 0.68                   |                    |         |         |         |                               | KTS500B684M31N0T00 | NTS30X7R1H684MT                                |                 |
|                     | 1.0                    |                    |         |         |         |                               | KTS500B105M31N0T00 | NTS30X7R1H105MT                                |                 |
|                     | 1.5                    |                    |         |         |         |                               | KTS500B155M32N0T00 | NTS40X7R1H155MT                                |                 |
|                     | 2.2                    | 3.2±0.4            | 2.5±0.3 | 2.6     | 0.6±0.3 | 0.5                           | KTS500B225M32N0T00 | NTS40X7R1H225MT                                |                 |
|                     | 3.3                    |                    |         |         |         |                               | KTS500B335M32N0T00 | NTS40X7R1H335MT                                |                 |
|                     | 4.7                    |                    |         |         |         |                               | KTS500B475M43N0T00 | NTS50X7R1H475MT                                |                 |
|                     | 6.8                    | 4.5±0.4            | 3.2±0.4 | 2.8     | 0.6±0.3 | 1.0                           | KTS500B685M43N0T00 | NTS50X7R1H685MT                                |                 |
|                     | 10                     |                    |         |         |         |                               | KTS500B106M55N0T00 | NTS60X7R1H106MT                                |                 |
|                     | 15                     |                    |         |         |         |                               | KTS500B156M55N0T00 | NTS60X7R1H156MT                                |                 |
|                     | 100                    | 0.1                | 3.2±0.2 | 1.6±0.2 | 1.8     | 0.5±0.3                       | 0.3                | KTS101B104M31N0T00                             | NTS30X7R2A104MT |
|                     |                        | 0.15               |         |         |         |                               |                    | KTS101B154M31N0T00                             | NTS30X7R2A154MT |
|                     |                        | 0.22               |         |         |         |                               |                    | KTS101B224M31N0T00                             | NTS30X7R2A224MT |
|                     |                        | 0.33               |         |         |         |                               |                    | KTS101B334M31N0T00                             | NTS30X7R2A334MT |
| 0.47                |                        | KTS101B474M31N0T00 |         |         |         |                               |                    | NTS30X7R2A474MT                                |                 |
| 0.68                |                        | KTS101B684M31N0T00 |         |         |         |                               |                    | NTS30X7R2A684MT                                |                 |
| 1.0                 |                        | KTS101B105M32N0T00 |         |         |         |                               |                    | NTS40X7R2A105MT                                |                 |
| 1.5                 |                        | 3.2±0.4            | 2.5±0.3 | 2.6     | 0.6±0.3 | 0.5                           | KTS101B155M32N0T00 | NTS40X7R2A155MT                                |                 |
| 2.2                 |                        |                    |         |         |         |                               | KTS101B225M32N0T00 | NTS40X7R2A225MT                                |                 |
| 3.3                 |                        |                    |         |         |         |                               | KTS101B335M32N0T00 | NTS40X7R2A335MT                                |                 |
| 4.7                 |                        | 4.5±0.4            | 3.2±0.4 | 2.8     | 0.6±0.3 | 1.0                           | KTS101B155M43N0T00 | NTS50X7R2A155MT                                |                 |
| 6.8                 |                        |                    |         |         |         |                               | KTS101B225M43N0T00 | NTS50X7R2A225MT                                |                 |
| 10                  |                        |                    | 3.2±0.5 | 3.2     | 0.8±0.5 |                               | KTS101B335M43J0T00 | —  |                 |
| 15                  |                        |                    |         |         |         |                               | KTS101B475M43E0T00 | —  |                 |
| 2.2                 |                        | 5.7±0.4            | 5.0±0.4 | 2.8     | 0.8±0.5 | 2.0                           | KTS101B335M55N0T00 | —  |                 |
| 3.3                 |                        |                    |         |         |         |                               | KTS101B475M55N0T00 | —  |                 |
| 4.7                 |                        |                    |         |         |         |                               | KTS101B685M55F0T00 | —  |                 |
| 6.8                 |                        |                    |         |         |         |                               | KTS101B104M31N0T00 | NTS30X7R2A104MT                                |                 |
| 10                  |                        |                    |         |         |         |                               | KTS101B154M31N0T00 | NTS30X7R2A154MT                                |                 |
| 250                 |                        | 0.033              | 3.2±0.2 | 1.6±0.2 | 1.8     | 0.5±0.3                       | 0.3                | KTS251B333M31N0T00                             | NTS30X7R2E333MT |
|                     | 0.047                  | KTS251B473M31N0T00 |         |         |         |                               |                    | NTS30X7R2E473MT                                |                 |
|                     | 0.068                  | KTS251B683M31N0T00 |         |         |         |                               |                    | NTS30X7R2E683MT                                |                 |
|                     | 0.1                    | 3.2±0.4            | 2.5±0.3 | 2.6     | 0.6±0.3 | 0.5                           | KTS251B104M31N0T00 | NTS30X7R2E104MT                                |                 |
|                     | 0.15                   |                    |         |         |         |                               | KTS251B154M32N0T00 | NTS40X7R2E154MT                                |                 |
|                     | 0.22                   |                    |         |         |         |                               | KTS251B224M32N0T00 | NTS40X7R2E224MT                                |                 |
|                     | 0.33                   |                    |         |         |         |                               | KTS251B334M32N0T00 | NTS40X7R2E334MT                                |                 |
|                     | 0.47                   | 4.5±0.4            | 3.2±0.4 | 2.8     | 0.6±0.3 | 1.0                           | KTS251B474M43N0T00 | NTS50X7R2E474MT                                |                 |
|                     | 0.68                   |                    |         |         |         |                               | KTS251B684M43N0T00 | NTS50X7R2E684MT                                |                 |
|                     | 1.0                    |                    |         |         |         |                               | KTS251B105M55N0T00 | NTS60X7R2E105MT                                |                 |
|                     | 1.5                    | 5.7±0.4            | 5.0±0.4 | 2.8     | 0.8±0.5 | 2.0                           | KTS251B155M55N0T00 | NTS60X7R2E155MT                                |                 |

※Please consult with us when you consider the rating other than a standard table.

### ◆PART NUMBERING SYSTEM



### ◆DIMENSIONS



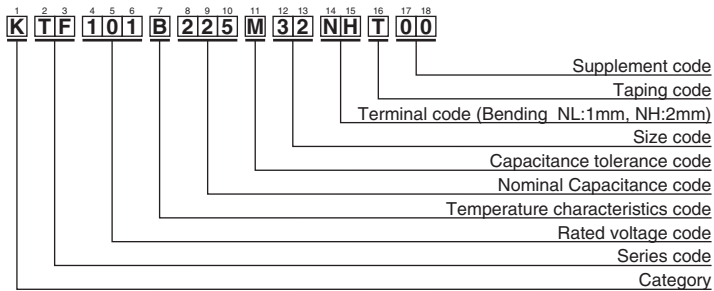
Please refer to "Part Numbering System" of the beginning of a catalog for the details.

### ◆STANDARD RATINGS

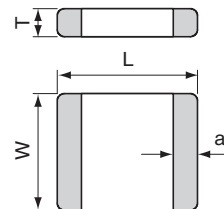
| Rated voltage (Vdc) | Rated Capacitance (μF) | Dimensions(mm)     |                    |         |         | Maximum ripple current (Arms) | Part Number        |                    |
|---------------------|------------------------|--------------------|--------------------|---------|---------|-------------------------------|--------------------|--------------------|
|                     |                        | L                  | W                  | Tmax.   | a       |                               |                    |                    |
| 25                  | 1.0                    | 3.2±0.3            | 1.6±0.2            | 1.8     | 0.7±0.2 | 0.3                           | KTF250B105M31NLT00 |                    |
|                     | 1.5                    |                    |                    |         |         |                               | KTF250B155M31NLT00 |                    |
|                     | 2.2                    |                    |                    |         |         |                               | KTF250B225M31NLT00 |                    |
|                     | 3.3                    | 3.2±0.4            | 2.5±0.3            | 2.6     | 0.7±0.2 | 0.5                           | KTF250B335M32NHT00 |                    |
|                     | 4.7                    |                    |                    |         |         |                               | KTF250B475M32NHT00 |                    |
|                     | 6.8                    |                    |                    |         |         |                               | KTF250B685M32NHT00 |                    |
|                     | 10                     | 4.5±0.4            | 3.2±0.4            | 2.8     | 0.7±0.2 | 1.0                           | KTF250B106M43NHT00 |                    |
|                     | 15                     |                    |                    |         |         |                               | KTF250B156M43NHT00 |                    |
|                     | 22                     |                    |                    |         |         |                               | 5.7±0.4            | 5.0±0.4            |
|                     | 33                     | 3.0                | KTF250B336M55NHT00 |         |         |                               |                    |                    |
| 50                  | 0.33                   | 3.2±0.3            | 1.6±0.2            | 1.8     | 0.7±0.2 | 0.3                           | KTF500B334M31NLT00 |                    |
|                     | 0.47                   |                    |                    |         |         |                               | KTF500B474M31NLT00 |                    |
|                     | 0.68                   |                    |                    |         |         |                               | KTF500B684M31NLT00 |                    |
|                     | 1.0                    |                    |                    |         |         |                               | KTF500B105M31NLT00 |                    |
|                     | 1.5                    | 3.2±0.4            | 2.5±0.3            | 2.6     | 0.7±0.2 | 0.5                           | KTF500B155M32NHT00 |                    |
|                     | 2.2                    |                    |                    |         |         |                               | KTF500B225M32NHT00 |                    |
|                     | 3.3                    |                    |                    |         |         |                               | KTF500B335M32NHT00 |                    |
|                     | 4.7                    | 4.5±0.4            | 3.2±0.4            | 2.8     | 0.7±0.2 | 1.0                           | KTF500B475M43NHT00 |                    |
|                     | 6.8                    |                    |                    |         |         |                               | KTF500B685M43NHT00 |                    |
|                     | 10                     |                    |                    |         |         |                               | 5.7±0.4            | 5.0±0.4            |
|                     | 15                     | KTF500B156M55NHT00 |                    |         |         |                               |                    |                    |
|                     | 100                    | 0.1                | 3.2±0.3            | 1.6±0.2 | 1.8     | 0.7±0.2                       | 0.3                | KTF101B104M31NLT00 |
|                     |                        | 0.15               |                    |         |         |                               |                    | KTF101B154M31NLT00 |
| 0.22                |                        | KTF101B224M31NLT00 |                    |         |         |                               |                    |                    |
| 0.33                |                        | KTF101B334M31NLT00 |                    |         |         |                               |                    |                    |
| 0.47                |                        | KTF101B474M31NLT00 |                    |         |         |                               |                    |                    |
| 0.68                |                        | KTF101B684M31NLT00 |                    |         |         |                               |                    |                    |
| 1.0                 |                        | 3.2±0.4            | 2.5±0.3            | 2.6     | 0.7±0.2 | 0.5                           | KTF101B105M32NHT00 |                    |
| 1.5                 |                        |                    |                    |         |         |                               | KTF101B155M32NHT00 |                    |
| 2.2                 |                        |                    |                    |         |         |                               | KTF101B225M32NHT00 |                    |
| 1.5                 |                        | 4.5±0.4            | 3.2±0.4            | 2.8     | 0.7±0.2 | 1.0                           | KTF101B155M43NHT00 |                    |
| 2.2                 |                        |                    |                    |         |         |                               | KTF101B225M43NHT00 |                    |
| 3.3                 |                        |                    |                    |         |         |                               | KTF101B335M43JHT00 |                    |
| 4.7                 |                        | 5.7±0.4            | 5.0±0.4            | 3.2     | 1.0±0.4 | 2.0                           | KTF101B475M43EHT00 |                    |
| 4.7                 |                        |                    |                    | 2.8     |         |                               | KTF101B475M55NHT00 |                    |
| 6.8                 |                        |                    |                    | 3.2     |         |                               | KTF101B685M55FHT00 |                    |
| 250                 |                        | 0.033              | 3.2±0.3            | 1.6±0.2 | 1.8     | 0.7±0.2                       | 0.3                | KTF251B333M31NLT00 |
|                     |                        | 0.047              |                    |         |         |                               |                    | KTF251B473M31NLT00 |
|                     |                        | 0.068              |                    |         |         |                               |                    | KTF251B683M31NLT00 |
|                     | 0.1                    | 3.2±0.4            | 2.5±0.3            | 2.6     | 0.7±0.2 | 0.5                           | KTF251B104M31NLT00 |                    |
|                     | 0.15                   |                    |                    |         |         |                               | KTF251B154M32NLT00 |                    |
|                     | 0.22                   |                    |                    |         |         |                               | KTF251B224M32NLT00 |                    |
|                     | 0.33                   | 4.5±0.4            | 3.2±0.4            | 2.8     | 0.7±0.2 | 1.0                           | KTF251B334M32NLT00 |                    |
|                     | 0.47                   |                    |                    |         |         |                               | KTF251B474M43NLT00 |                    |
|                     | 0.68                   |                    |                    |         |         |                               | KTF251B684M43NLT00 |                    |
|                     | 1.0                    | 5.7±0.4            | 5.0±0.4            | 2.8     | 1.0±0.4 | 2.0                           | KTF251B105M55NLT00 |                    |
|                     | 1.5                    |                    |                    |         |         |                               | KTF251B155M55NLT00 |                    |

※Please consult with us when you consider the rating other than a standard table.

### ◆PART NUMBERING SYSTEM



### ◆DIMENSIONS



Please refer to "Part Numbering System" of the beginning of a catalog for the details.