

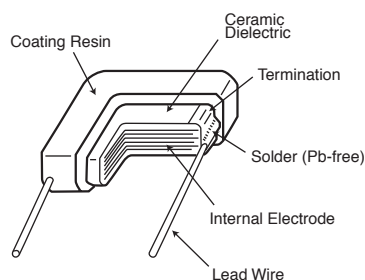
### ◆FEATURES

1. Small in size and wide capacitance range.  
Max. 470 $\mu$ F is available.
2. Temperature characteristic is X7R in EIA code.
3. Superior humidity characteristic and long life.
4. Excellent high frequency characteristic due to low ESR.
5. High rated ripple current.
6. 250V<sub>dc</sub> items are available.
7. Resin(UL94 V-0) used for coating.
8. Pb-free design(also ceramic dielectric)

### ◆APPLICATIONS

1. Smoothing circuit of switching mode AC-DC or DC-DC converter.
2. Noise suppressor for various kinds of equipments.
3. By-pass or decoupling circuits.
4. Automotive equipments.

### ◆CONSTRUCTION



### ◆RATINGS

|                                |                                          |
|--------------------------------|------------------------------------------|
| 1. Category Temperature Range  | -55 to +125°C                            |
| 2. Rated Voltage Range         | 25, 35, 50, 100, 250, 500V <sub>dc</sub> |
| 3. Rated Capacitance Range     | 0.1 to 470 $\mu$ F                       |
| 4. Rated Capacitance Tolerance | M( $\pm$ 20%), K( $\pm$ 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               | Between Terminals          | No abnormality.                                        | Rated voltage                                                          |                      | Withstand voltage               |
|     |                                 | Terminals to Coating Resin |                                                        | Less than 250V                                                         |                      | 250% of rated voltage           |
|     |                                 |                            |                                                        | More than 250V<br>Less than 500V                                       |                      | 100V +<br>150% of rated voltage |
|     |                                 |                            |                                                        | More than 500V                                                         |                      | 130% of rated voltage           |
|     | Shall be applied for 5 seconds. |                            |                                                        |                                                                        |                      |                                 |
| 2   | Insulation Resistance           |                            | 100/C <sub>R</sub> (MΩ) or 4000(MΩ) whichever is less. | Rated voltage shall be applied for 60±5 seconds at temperature 25±2°C. |                      |                                 |
| 3   | Rated Capacitance               |                            | Within specified tolerance.                            |                                                                        | C <sub>R</sub> ≤10μF | C <sub>R</sub> >10μF            |
|     |                                 |                            |                                                        | Temperature                                                            | 25±2°C               |                                 |
| 4   | Dissipation Factor              |                            | 5.0% maximum.                                          | Frequency                                                              | 1±0.1kHz             | 120±12Hz                        |
|     |                                 |                            |                                                        | Voltage                                                                | 1±0.2Vrms            | 0.5±0.2Vrms                     |

As customer requirement, Chemi-Con has submits the test results according to AEC-Q200 for Multilayer ceramic capacitors. Please contact us for more information.

### ◆SPECIFICATIONS

| No.                | Items                        |          | Specification                                                                                                                          | Test Condition                                                                                                                                                                                                                                                                                                                                                                            |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
|--------------------|------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|--------------------|--------|------------------------------|-----------|---|------------------|--------|---|------------------------------|------|---|------------------|--------|
| 5                  | Rated Ripple Current         |          | See STANDARD RATINGS                                                                                                                   | 10kHz to 1MHz (sine curve)<br>Ripple voltage Vp shall be less than the rated voltage.                                                                                                                                                                                                                                                                                                     |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| 6                  | Robustness of Terminations   | Tension  | No visible damage.                                                                                                                     | The force applied shall be :                                                                                                                                                                                                                                                                                                                                                              |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
|                    |                              |          |                                                                                                                                        | Lead ϕ (mm)                                                                                                                                                                                                                                                                                                                                                                               | Tensile(N) | (sec.)          |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
|                    |                              |          |                                                                                                                                        | 0.5 max.                                                                                                                                                                                                                                                                                                                                                                                  | 5          | 10± 1           |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
|                    |                              | 0.6 min. |                                                                                                                                        | 10                                                                                                                                                                                                                                                                                                                                                                                        | 10± 1      |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
|                    |                              | Bending  |                                                                                                                                        | Lead ϕ (mm)                                                                                                                                                                                                                                                                                                                                                                               | Bending(N) | (kg)            |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
|                    |                              |          |                                                                                                                                        | 0.5 max.                                                                                                                                                                                                                                                                                                                                                                                  | 2.5        | 0.25            |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| 0.6 min.           | 5                            |          | 0.51                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                           |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| Time : 2times.     |                              |          |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                           |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| 7                  | Vibration                    |          | Appearance : No abnormality.<br>Capacitance : To meet the initial specification.<br>D.F. : To meet the initial specification.          | Amplitude : 1.5mm<br>Frequency range : 10-55-10Hz (1 min)<br>Direction and time :<br>2 hours each to X, Y, Z axis. Total 6 hours.                                                                                                                                                                                                                                                         |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| 8                  | Solderability                |          | Min. 75% of surface of the termination shall be covered with new solder.                                                               | <table><tr><td>Solder</td><td>Pb Free</td></tr><tr><td>Solder Temperature</td><td>245±5℃</td></tr><tr><td>Dipping Time</td><td>2±0.5sec.</td></tr></table>                                                                                                                                                                                                                                | Solder     | Pb Free         | Solder Temperature | 245±5℃ | Dipping Time                 | 2±0.5sec. |   |                  |        |   |                              |      |   |                  |        |
| Solder             | Pb Free                      |          |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                           |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| Solder Temperature | 245±5℃                       |          |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                           |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| Dipping Time       | 2±0.5sec.                    |          |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                           |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| 9                  | Resistance to Soldering Heat |          | Appearance : No abnormality.<br>ΔC/C : ± 15%<br>D.F. : To meet the initial specification.<br>I.R. : To meet the initial specification. | Solder Temperature : 350±10℃<br>Dipping Time : 3±0.5 sec.<br>Depth : 1.5 to 2mm                                                                                                                                                                                                                                                                                                           |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| 10                 | Temperature Cycle            |          | Appearance : No abnormality.<br>ΔC/C : ± 15%<br>D.F. : To meet the initial specification.<br>I.R. : To meet the initial specification. | <table><tr><td>Step</td><td>Temperature (℃)</td><td>(min.)</td></tr><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></table><br>For 5 cycles for above temperature cycle. | Step       | Temperature (℃) | (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 (℃)              | (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>ΔC/C : ± 20%<br>D.F. : 10% maximum<br>I.R. : 25/CR(MΩ) or 1000(MΩ)<br>whichever is less.               | Temperature : 40±2℃<br>Humidity : 90 to 95%RH<br>Voltage : Rated voltage<br>Time : 500± <sup>24</sup> <sub>0</sub> hours                                                                                                                                                                                                                                                                  |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |
| 12                 | Endurance                    |          | Appearance : No abnormality.<br>ΔC/C : ± 20%<br>D.F. : 10% maximum<br>I.R. : 50/CR(MΩ) or 1000(MΩ)<br>whichever is less.               | Temperature : 125±3℃<br>Voltage : Rated voltage<br>Time : 1000± <sup>48</sup> <sub>0</sub> hours                                                                                                                                                                                                                                                                                          |            |                 |                    |        |                              |           |   |                  |        |   |                              |      |   |                  |        |

\* $C_R$  : Rated Capacitance( $\mu$ F)

### ◆STANDARD RATINGS

| Rated voltage (Vdc) | Rated Capacitance (μF) | Electrostatic Capacitance Temperature Characteristics | Dimensions(mm) |        |        |       |         | Maximum ripple current (Arms) | Part Number        | Taping Quantity per reel (pcs./reel) |
|---------------------|------------------------|-------------------------------------------------------|----------------|--------|--------|-------|---------|-------------------------------|--------------------|--------------------------------------|
|                     |                        |                                                       | L max.         | W max. | T max. | F±0.8 | φd±0.05 |                               |                    |                                      |
| 25                  | 3.3                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD250B335□32A0T00 | 2,000                                |
|                     | 4.7                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD250B475□32A0T00 | 2,000                                |
|                     | 6.8                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD250B685□43A0T00 | 2,000                                |
|                     | 10                     | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD250B106□43A0T00 | 2,000                                |
|                     | 15                     | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD250B156□43A0T00 | 2,000                                |
|                     | 15                     | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD250B156□55A0T00 | 2,000                                |
|                     | 22                     | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD250B226□55A0T00 | 2,000                                |
|                     | 33                     | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD250B336□55A0T00 | 2,000                                |
|                     | 47                     | X7R                                                   | 10.0           | 11.5   | 5.5    | 5.0   | 0.5     | 1.5                           | KTD250B476□76A0T00 | 1,000                                |
|                     | 68                     | X7R                                                   | 13.5           | 15.0   | 6.0    | 10.0  | 0.6     | 2.0                           | KTD250B686M80A0B00 | —                                    |
|                     | 100                    | X7R                                                   | 13.5           | 15.0   | 8.0    | 10.0  | 0.6     | 2.0                           | KTD250B107M80A0B00 | —                                    |
|                     | 150                    | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                           | KTD250B157M90A0B00 | —                                    |
| 35                  | 220                    | X7R                                                   | 22.5           | 20.0   | 8.0    | 20.0  | 0.8     | 3.0                           | KTD250B227M90A0B00 | —                                    |
|                     | 330                    | X7R                                                   | 28.5           | 20.0   | 8.0    | 25.0  | 0.8     | 4.0                           | KTD250B337M99A0B00 | —                                    |
|                     | 470                    | X7R                                                   | 28.5           | 20.0   | 11.5   | 25.0  | 0.8     | 4.0                           | KTD250B477M99A0B00 | —                                    |
|                     | 3.3                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD350B335□32A0T00 | 2,000                                |
|                     | 4.7                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD350B475□32A0T00 | 2,000                                |
|                     | 6.8                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD350B685□43A0T00 | 2,000                                |
|                     | 10                     | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD350B106□43A0T00 | 2,000                                |
|                     | 15                     | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD350B156□55A0T00 | 2,000                                |
| 50                  | 22                     | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD350B226□55A0T00 | 2,000                                |
|                     | 33                     | X7R                                                   | 10.0           | 11.5   | 5.0    | 5.0   | 0.5     | 1.5                           | KTD350B336□76A0T00 | 1,000                                |
|                     | 47                     | X7R                                                   | 10.0           | 11.5   | 5.5    | 5.0   | 0.5     | 1.5                           | KTD350B476□76A0T00 | 1,000                                |
|                     | 1.0                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD500B105□32A0T00 | 2,000                                |
|                     | 1.5                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD500B155□32A0T00 | 2,000                                |
|                     | 2.2                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD500B225□32A0T00 | 2,000                                |
|                     | 3.3                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD500B335□32A0T00 | 2,000                                |
|                     | 4.7                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD500B475□43A0T00 | 2,000                                |
|                     | 6.8                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD500B685□43A0T00 | 2,000                                |
|                     | 10                     | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD500B106□55A0T00 | 2,000                                |
|                     | 15                     | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD500B156□55A0T00 | 2,000                                |
|                     | 22                     | X7R                                                   | 10.0           | 11.5   | 5.0    | 5.0   | 0.5     | 1.5                           | KTD500B226□76A0T00 | 1,500                                |
| 100                 | 33                     | X7R                                                   | 13.5           | 15.0   | 5.5    | 10.0  | 0.6     | 2.0                           | KTD500B336M80A0B00 | —                                    |
|                     | 47                     | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                           | KTD500B476M90A0B00 | —                                    |
|                     | 68                     | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                           | KTD500B686M90A0B00 | —                                    |
|                     | 100                    | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                           | KTD500B107M90A0B00 | —                                    |
|                     | 150                    | X7R                                                   | 28.5           | 20.0   | 7.5    | 25.0  | 0.8     | 4.0                           | KTD500B157M99A0B00 | —                                    |
|                     | 220                    | X7R                                                   | 28.5           | 20.0   | 10.0   | 25.0  | 0.8     | 4.0                           | KTD500B227M99A0B00 | —                                    |
|                     | 0.33                   | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD101B334□32A0T00 | 2,000                                |
|                     | 0.47                   | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD101B474□32A0T00 | 2,000                                |
|                     | 0.68                   | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD101B684□32A0T00 | 2,000                                |
|                     | 1.0                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD101B105□32A0T00 | 2,000                                |
|                     | 1.5                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD101B155□32A0T00 | 2,000                                |
|                     | 2.2                    | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                           | KTD101B225□32A0T00 | 2,000                                |
|                     | 1.5                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD101B155□43A0T00 | 2,000                                |
|                     | 2.2                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD101B225□43A0T00 | 2,000                                |
|                     | 3.3                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD101B335□43A0T00 | 2,000                                |
|                     | 4.7                    | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                           | KTD101B475□43A0T00 | 2,000                                |
|                     | 3.3                    | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD101B335□55A0T00 | 2,000                                |
|                     | 4.7                    | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                           | KTD101B475□55A0T00 | 2,000                                |
|                     | 6.8                    | X7R                                                   | 7.5            | 9.0    | 4.7    | 5.0   | 0.5     | 1.0                           | KTD101B685□55A0T00 | 2,000                                |
|                     | 6.8                    | X7R                                                   | 10.0           | 11.5   | 5.0    | 5.0   | 0.5     | 1.5                           | KTD101B685□76A0T00 | 1,500                                |
| 100                 | 10                     | X7R                                                   | 13.5           | 15.0   | 5.0    | 10.0  | 0.6     | 2.0                           | KTD101B106M80A0B00 | —                                    |
|                     | 15                     | X7R                                                   | 13.5           | 15.0   | 6.0    | 10.0  | 0.6     | 2.0                           | KTD101B156M80A0B00 | —                                    |
|                     | 22                     | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                           | KTD101B226M90A0B00 | —                                    |
|                     | 33                     | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                           | KTD101B336M90A0B00 | —                                    |
|                     | 47                     | X7R                                                   | 28.5           | 20.0   | 7.5    | 25.0  | 0.8     | 4.0                           | KTD101B476M99A0B00 | —                                    |
|                     | 68                     | X7R                                                   | 28.5           | 20.0   | 7.5    | 25.0  | 0.8     | 4.0                           | KTD101B686M99A0B00 | —                                    |
|                     | 100                    | X7R                                                   | 28.5           | 20.0   | 9.0    | 25.0  | 0.8     | 4.0                           | KTD101B107M99A0B00 | —                                    |

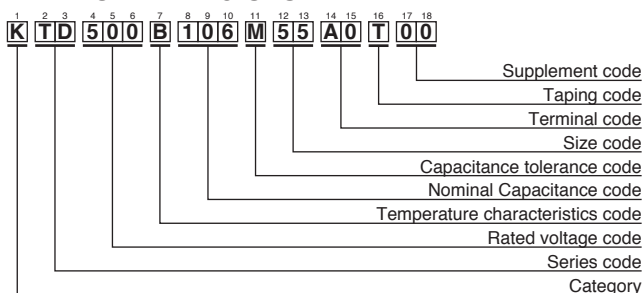
### ◆STANDARD RATINGS

| Rated voltage<br>(Vdc) | Rated Capacitance<br>(μF) | Electrostatic Capacitance Temperature Characteristics | Dimensions(mm) |        |        |       |         | Maximum ripple current<br>(Arms) | Part Number        | Taping Quantity per reel<br>(pcs./reel) |
|------------------------|---------------------------|-------------------------------------------------------|----------------|--------|--------|-------|---------|----------------------------------|--------------------|-----------------------------------------|
|                        |                           |                                                       | L max.         | W max. | T max. | F±0.8 | φd±0.05 |                                  |                    |                                         |
| 250                    | 0.1                       | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                              | KTD251B104□32A0T00 | 2,000                                   |
|                        | 0.15                      | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                              | KTD251B154□32A0T00 | 2,000                                   |
|                        | 0.22                      | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                              | KTD251B224□32A0T00 | 2,000                                   |
|                        | 0.33                      | X7R                                                   | 5.0            | 6.0    | 3.5    | 5.0   | 0.5     | 0.3                              | KTD251B334□32A0T00 | 2,000                                   |
|                        | 0.47                      | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                              | KTD251B474□43A0T00 | 2,000                                   |
|                        | 0.68                      | X7R                                                   | 6.5            | 6.5    | 4.0    | 5.0   | 0.5     | 0.8                              | KTD251B684□43A0T00 | 2,000                                   |
|                        | 1.0                       | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                              | KTD251B105□55A0T00 | 2,000                                   |
|                        | 1.5                       | X7R                                                   | 7.5            | 9.0    | 4.5    | 5.0   | 0.5     | 1.0                              | KTD251B155□55A0T00 | 2,000                                   |
|                        | 2.2                       | X7R                                                   | 10.0           | 11.5   | 6.0    | 5.0   | 0.5     | 1.5                              | KTD251B225□76A0T00 | 1,000                                   |
|                        | 2.2                       | X7R                                                   | 13.5           | 15.0   | 5.0    | 10.0  | 0.6     | 2.0                              | KTD251B225M80A0B00 | —                                       |
|                        | 3.3                       | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                              | KTD251B335M90A0B00 | —                                       |
|                        | 4.7                       | X7R                                                   | 22.5           | 20.0   | 6.0    | 20.0  | 0.8     | 3.0                              | KTD251B475M90A0B00 | —                                       |
|                        | 6.8                       | X7R                                                   | 28.5           | 20.0   | 7.5    | 25.0  | 0.8     | 4.0                              | KTD251B685M99A0B00 | —                                       |
|                        | 10                        | X7R                                                   | 28.5           | 20.0   | 7.5    | 25.0  | 0.8     | 4.0                              | KTD251B106M99A0B00 | —                                       |
| 500                    | 15                        | X7R                                                   | 28.5           | 20.0   | 7.5    | 25.0  | 0.8     | 4.0                              | KTD251B156M99A0B00 | —                                       |
|                        | 0.47                      | X7R                                                   | 7.5            | 9.0    | 3.5    | 5.0   | 0.5     | 0.8                              | KTD501B474□55A0T00 | 2,000                                   |
|                        | 0.56                      | X7R                                                   | 7.5            | 9.0    | 3.5    | 5.0   | 0.5     | 0.8                              | KTD501B564□55A0T00 | 2,000                                   |
|                        | 0.68                      | X7R                                                   | 10.0           | 11.5   | 3.4    | 5.0   | 0.5     | 1.0                              | KTD501B684□76A0T00 | 1,500                                   |
|                        | 1.0                       | X7R                                                   | 10.0           | 11.5   | 3.8    | 5.0   | 0.5     | 1.0                              | KTD501B105□76A0T00 | 1,500                                   |
|                        | 1.2                       | X7R                                                   | 10.0           | 11.5   | 4.2    | 5.0   | 0.5     | 1.0                              | KTD501B125□76A0T00 | 1,500                                   |

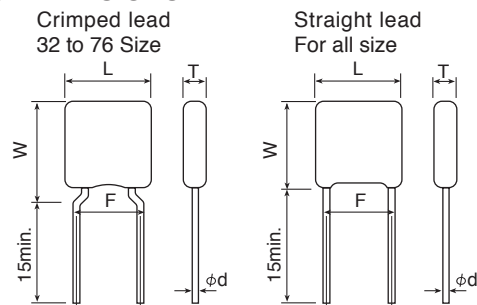
※ The square (□) in part numbers is replaced by a capacitance tolerance code: 'K' when ±10%, or 'M' when ±20%

※ 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.