

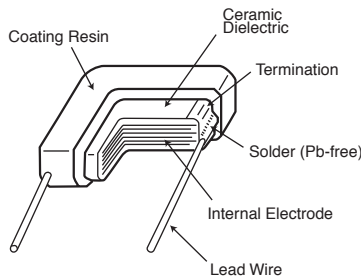
### ◆FEATURES

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%)                            |
| 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> (M $\Omega$ ) or 4000(M $\Omega$ ) whichever is less. | Rated voltage shall be applied for 60 $\pm$ 5 seconds at temperature 25 $\pm$ 2°C. |                                  |                               |
| 3                               | Rated Capacitance                |                            | Within specified tolerance.  |  | C <sub>R</sub> $\leq$ 10 $\mu$ F | C <sub>R</sub> >10 $\mu$ F    |
|                                 |                                  |                            |  | Temperature  | 25 $\pm$ 2°C                     |                               |
| 4                               | Dissipation Factor               |                            | 5.0% maximum.  | Frequency  | 1 $\pm$ 0.1kHz                   | 120 $\pm$ 12Hz                |
|                                 |                                  |                            |  | Voltage  | 1 $\pm$ 0.2V <sub>rms</sub>      | 0.5 $\pm$ 0.2V <sub>rms</sub> |

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



# DIPPED RADIAL LEAD MULTILAYER CERAMIC CAPACITORS

**NTD** Series

## ◆ SPECIFICATIONS

| No.                | Items                        | Specification  | Test Condition  |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
|--------------------|------------------------------|--|---|------------------|------------------|--------------------|----------|------------------------------|-----------|----------|------------------|--------|---|------------------------------|------|---|------------------|--------|
| 5                  | Rated Ripple Current         | See STANDARD RATINGS   | 10kHz to 1MHz (sine curve)<br>Ripple voltage $V_p$ shall be less than the rated voltage.  |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 6                  | Robustness of Terminations   | No visible damage.   | The force applied shall be :<br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lead <math>\phi</math> (mm)</th> <th>Tensile(N)</th> <th>(sec.)</th> </tr> </thead> <tbody> <tr> <td>0.5 max.</td> <td>5</td> <td>10±1</td> </tr> <tr> <td>0.6 min.</td> <td>10</td> <td>10±1</td> </tr> </tbody> </table>  | Lead $\phi$ (mm) | Tensile(N)       | (sec.)             | 0.5 max. | 5                            | 10±1      | 0.6 min. | 10               | 10±1   |   |                              |      |   |                  |        |
|                    | Lead $\phi$ (mm)             |  | Tensile(N)  | (sec.)           |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 0.5 max.           | 5                            | 10±1   |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 0.6 min.           | 10                           | 10±1   |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
|                    | Bending                      |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lead <math>\phi</math> (mm)</th> <th>Bending(N)</th> <th>(kg)</th> </tr> </thead> <tbody> <tr> <td>0.5 max.</td> <td>2.5</td> <td>0.25</td> </tr> <tr> <td>0.6 min.</td> <td>5</td> <td>0.51</td> </tr> </tbody> </table> <p>Time : 2times.</p>   | Lead $\phi$ (mm) | Bending(N)       | (kg)               | 0.5 max. | 2.5                          | 0.25      | 0.6 min. | 5                | 0.51   |   |                              |      |   |                  |        |
| Lead $\phi$ (mm)   | Bending(N)                   | (kg)   |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 0.5 max.           | 2.5                          | 0.25   |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 0.6 min.           | 5                            | 0.51   |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 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 border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Solder</th> <th>Pb Free</th> </tr> </thead> <tbody> <tr> <td>Solder Temperature</td> <td>245±5°C</td> </tr> <tr> <td>Dipping Time</td> <td>2±0.5sec.</td> </tr> </tbody> </table>   | Solder           | Pb Free          | Solder Temperature | 245±5°C  | Dipping Time                 | 2±0.5sec. |          |                  |        |   |                              |      |   |                  |        |
| Solder             | Pb Free                      |  |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| Solder Temperature | 245±5°C                      |  |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| Dipping Time       | 2±0.5sec.                    |  |   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 9                  | Resistance to Soldering Heat | Appearance : No abnormality.<br>$\Delta C/C : \pm 15\%$<br>D.F. : To meet the initial specification.<br>I.R. : To meet the initial specification.          | Solder Temperature : 350±10°C<br>Dipping Time : 3±0.5 sec.<br>Depth : 1.5 to 2mm  |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 10                 | Temperature Cycle            | Appearance : No abnormality.<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" style="width: 100%; border-collapse: collapse;"> <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 5 cycles for above temperature cycle.</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>$\Delta C/C : \pm 20\%$<br>D.F. : 10% maximum<br>I.R. : 25/ $C_R$ (M $\Omega$ ) or 1000(M $\Omega$ )<br>whichever is less. | Temperature : 40±2°C<br>Humidity : 90 to 95%RH<br>Voltage : Rated voltage<br>Time : 500± <sub>0</sub> <sup>24</sup> hours   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |
| 12                 | Endurance                    | Appearance : No abnormality.<br>$\Delta C/C : \pm 20\%$<br>D.F. : 10% maximum<br>I.R. : 50/ $C_R$ (M $\Omega$ ) or 1000(M $\Omega$ )<br>whichever is less. | Temperature : 125±3°C<br>Voltage : Rated voltage<br>Time : 1000± <sub>0</sub> <sup>48</sup> hours   |                  |                  |                    |          |                              |           |          |                  |        |   |                              |      |   |                  |        |

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



# DIPPED RADIAL LEAD MULTILAYER CERAMIC CAPACITORS

**NTD** Series

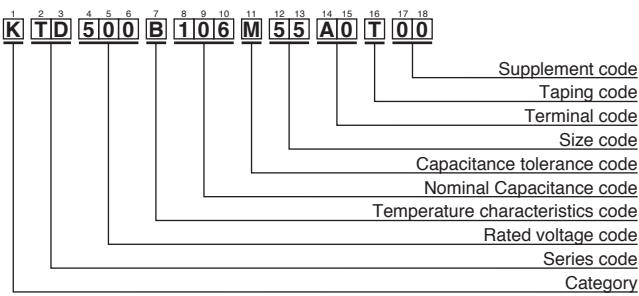
◆ **STANDARD RATINGS**

| Rated voltage (Vdc) | Rated Capacitance (μF) | Dimensions (mm)    |       |                    |       |         | Maximum ripple current (Arms) | Part Number        | Taping Quantity per reel (pcs./box) |      |     |                    |                    |   |
|---------------------|------------------------|--------------------|-------|--------------------|-------|---------|-------------------------------|--------------------|-------------------------------------|------|-----|--------------------|--------------------|---|
|                     |                        | Lmax.              | Wmax. | Tmax.              | F±0.8 | φd±0.05 |                               |                    |                                     |      |     |                    |                    |   |
| 25                  | 3.3                    | 5.0                | 6.0   | 3.5                | 5.0   | 0.5     | 0.3                           | KTD250B335M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 4.7                    |                    |       |                    |       |         |                               | KTD250B475M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 6.8                    |                    |       |                    |       |         |                               | KTD250B685M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 10                     | 6.5                | 6.5   | 4.0                | 5.0   | 0.5     | 0.8                           | KTD250B106M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 15                     |                    |       |                    |       |         |                               | KTD250B156M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 15                     |                    |       |                    |       |         |                               | KTD250B156M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 22                     | 7.5                | 9.0   | 4.5                | 5.0   | 0.5     | 1.0                           | KTD250B226M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 33                     |                    |       |                    |       |         |                               | KTD250B336M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 47                     |                    |       |                    |       |         |                               | KTD250B476M76A0T00 | 1,000                               |      |     |                    |                    |   |
|                     | 68                     | 13.5               | 15.0  | 6.0                | 10.0  | 0.6     | 2.0                           | KTD250B686M80A0B00 | —                                   |      |     |                    |                    |   |
|                     | 100                    |                    |       | 8.0                |       |         |                               | KTD250B107M80A0B00 | —                                   |      |     |                    |                    |   |
|                     | 150                    |                    |       | 6.0                |       |         |                               | KTD250B157M90A0B00 | —                                   |      |     |                    |                    |   |
|                     | 220                    | 22.5               | 20.0  | 8.0                | 20.0  | 0.8     | 3.0                           | KTD250B227M90A0B00 | —                                   |      |     |                    |                    |   |
|                     | 330                    |                    |       | 8.0                |       |         |                               | KTD250B337M99A0B00 | —                                   |      |     |                    |                    |   |
| 470                 | 11.5                   |                    |       | KTD250B477M99A0B00 |       |         |                               | —                  |                                     |      |     |                    |                    |   |
| 35                  | 3.3                    | 5.0                | 6.0   | 3.5                | 5.0   | 0.5     | 0.3                           | KTD350B335M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 4.7                    |                    |       |                    |       |         |                               | KTD350B475M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 6.8                    |                    |       |                    |       |         |                               | KTD350B685M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 10                     | 6.5                | 6.5   | 4.0                | 5.0   | 0.5     | 0.8                           | KTD350B106M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 15                     |                    |       |                    |       |         |                               | KTD350B156M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 22                     |                    |       |                    |       |         |                               | KTD350B226M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 33                     | 10.0               | 11.5  | 5.0                | 5.0   | 0.5     | 1.5                           | KTD350B336M76A0T00 | 1,000                               |      |     |                    |                    |   |
|                     | 47                     |                    |       | 5.5                |       |         |                               | KTD350B476M76A0T00 | 1,000                               |      |     |                    |                    |   |
| 1.0                 | 5.0                    |                    |       | 6.0                |       |         |                               | 3.5                | 5.0                                 | 0.5  | 0.3 | KTD500B105M32A0T00 | 2,000              |   |
| 1.5                 |                        | KTD500B155M32A0T00 | 2,000 |                    |       |         |                               |                    |                                     |      |     |                    |                    |   |
| 2.2                 |                        | KTD500B225M32A0T00 | 2,000 |                    |       |         |                               |                    |                                     |      |     |                    |                    |   |
| 3.3                 | 6.5                    | 6.5                | 4.0   | 5.0                | 0.5   | 0.8     | KTD500B335M32A0T00            | 2,000              |                                     |      |     |                    |                    |   |
| 4.7                 |                        |                    |       |                    |       |         | KTD500B475M43A0T00            | 2,000              |                                     |      |     |                    |                    |   |
| 6.8                 |                        |                    |       |                    |       |         | KTD500B685M43A0T00            | 2,000              |                                     |      |     |                    |                    |   |
| 10                  | 7.5                    | 9.0                | 4.5   | 5.0                | 0.5   | 1.0     | KTD500B106M55A0T00            | 2,000              |                                     |      |     |                    |                    |   |
| 15                  |                        |                    |       |                    |       |         | KTD500B156M55A0T00            | 2,000              |                                     |      |     |                    |                    |   |
| 22                  |                        |                    |       |                    |       |         | KTD500B226M76A0T00            | 1,000              |                                     |      |     |                    |                    |   |
| 33                  | 13.5                   | 15.0               | 5.5   | 10.0               | 0.6   | 2.0     | KTD500B336M80A0B00            | —                  |                                     |      |     |                    |                    |   |
| 47                  |                        |                    | 6.0   |                    |       |         | KTD500B476M90A0B00            | —                  |                                     |      |     |                    |                    |   |
| 68                  |                        |                    | 22.5  |                    |       |         | 20.0                          | 6.0                | 20.0                                | 0.8  | 3.0 | KTD500B686M90A0B00 | —                  |   |
| 100                 | 28.5                   | 20.0               | 7.0   | 25.0               | 0.8   | 4.0     | KTD500B107M90A0B00            | —                  |                                     |      |     |                    |                    |   |
| 150                 |                        |                    | 7.5   |                    |       |         | KTD500B157M99A0B00            | —                  |                                     |      |     |                    |                    |   |
| 220                 |                        |                    | 10.0  |                    |       |         | KTD500B227M99A0B00            | —                  |                                     |      |     |                    |                    |   |
| 100                 | 0.33                   | 5.0                | 6.0   | 3.5                | 5.0   | 0.5     | 0.3                           | KTD101B334M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 0.47                   |                    |       |                    |       |         |                               | KTD101B474M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 0.68                   |                    |       |                    |       |         |                               | KTD101B684M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 1.0                    |                    |       |                    |       |         |                               | KTD101B105M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 1.5                    |                    |       |                    |       |         |                               | KTD101B155M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 2.2                    |                    |       |                    |       |         |                               | KTD101B225M32A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 1.5                    | 6.5                | 6.5   | 4.0                | 5.0   | 0.5     | 0.8                           | KTD101B155M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 2.2                    |                    |       |                    |       |         |                               | KTD101B225M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 3.3                    |                    |       |                    |       |         |                               | KTD101B335M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 4.7                    |                    |       |                    |       |         |                               | KTD101B475M43A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 3.3                    |                    |       |                    |       |         |                               | KTD101B335M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 4.7                    |                    |       |                    |       |         |                               | KTD101B475M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 6.8                    | 10.0               | 11.5  | 4.7                | 5.0   | 0.5     | 1.5                           | KTD101B685M55A0T00 | 2,000                               |      |     |                    |                    |   |
|                     | 6.8                    |                    |       | 5.0                |       |         |                               | KTD101B685M76A0T00 | 1,000                               |      |     |                    |                    |   |
|                     | 10                     |                    |       | 5.0                |       |         |                               | KTD101B106M80A0B00 | —                                   |      |     |                    |                    |   |
|                     | 15                     |                    |       | 6.0                |       |         |                               | KTD101B156M80A0B00 | —                                   |      |     |                    |                    |   |
|                     | 22                     |                    |       | 22.5               |       |         |                               | 20.0               | 6.0                                 | 20.0 | 0.8 | 3.0                | KTD101B226M90A0B00 | — |
|                     | 33                     |                    |       | KTD101B336M90A0B00 |       |         |                               | —                  |                                     |      |     |                    |                    |   |
|                     | 47                     | 28.5               | 20.0  | 7.5                | 25.0  | 0.8     | 4.0                           | KTD101B476M99A0B00 | —                                   |      |     |                    |                    |   |
|                     | 68                     |                    |       | 7.5                |       |         |                               | KTD101B686M99A0B00 | —                                   |      |     |                    |                    |   |
|                     | 100                    |                    |       | 9.0                |       |         |                               | KTD101B107M99A0B00 | —                                   |      |     |                    |                    |   |

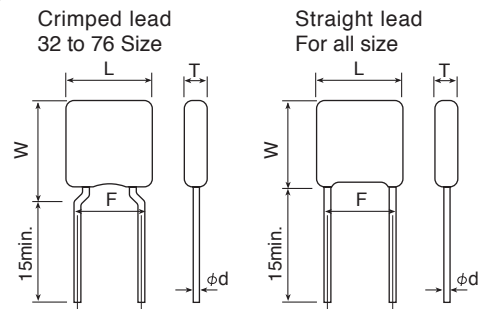
|     |      |      |      |      |      |     |                    |                    |       |
|-----|------|------|------|------|------|-----|--------------------|--------------------|-------|
| 250 | 0.1  | 5.0  | 6.0  | 3.5  | 5.0  | 0.5 | 0.3                | KTD251B104M32A0T00 | 2,000 |
|     | 0.15 |      |      |      |      |     |                    | KTD251B154M32A0T00 | 2,000 |
|     | 0.22 |      |      |      |      |     |                    | KTD251B224M32A0T00 | 2,000 |
|     | 0.33 |      |      |      |      |     |                    | KTD251B334M32A0T00 | 2,000 |
|     | 0.47 | 6.5  | 6.5  | 4.0  | 5.0  | 0.5 | 0.8                | KTD251B474M43A0T00 | 2,000 |
|     | 0.68 |      |      |      |      |     |                    | KTD251B684M43A0T00 | 2,000 |
|     | 1.0  |      |      |      |      |     |                    | KTD251B105M55A0T00 | 2,000 |
|     | 1.5  | 7.5  | 9.0  | 4.5  | 5.0  | 0.5 | 1.0                | KTD251B155M55A0T00 | 2,000 |
|     | 2.2  | 10.0 | 11.5 | 6.0  | 5.0  | 0.5 | 1.5                | KTD251B225M76A0T00 | 1,000 |
|     | 2.2  | 13.5 | 15.0 | 5.0  | 10.0 | 0.6 | 2.0                | KTD251B225M80A0B00 | —     |
|     | 3.3  | 22.5 | 20.0 | 6.0  | 20.0 | 0.8 | 3.0                | KTD251B335M90A0B00 | —     |
|     | 4.7  |      |      |      |      |     |                    | KTD251B475M90A0B00 | —     |
|     | 6.8  |      |      |      |      |     |                    | KTD251B685M99A0B00 | —     |
|     | 10   |      |      |      |      |     |                    | KTD251B106M99A0B00 | —     |
| 15  | 28.5 | 20.0 | 7.5  | 25.0 | 0.8  | 4.0 | KTD251B156M99A0B00 | —                  |       |
| 500 | 0.47 | 7.5  | 9.0  | 3.5  | 5.0  | 0.5 | 0.8                | KTD501B474M55A0T00 | 2,000 |
|     | 0.56 |      |      |      |      |     |                    | KTD501B564M55A0T00 | 2,000 |
|     | 0.68 | 10.0 | 11.5 | 3.4  | 5.0  | 0.5 | 1.0                | KTD501B684M76A0T00 | 1,500 |
|     | 1.0  |      |      | 3.8  |      |     |                    | KTD501B105M76A0T00 | 1,500 |
|     | 1.2  |      |      | 4.2  |      |     |                    | KTD501B125M76A0T00 | 1,500 |

※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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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