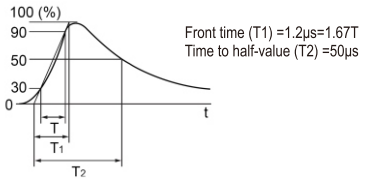
Specifications test methods

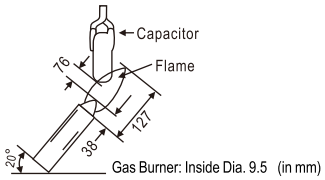
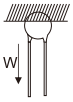
Specifications Test Methods

↘Continued from the preceding page.

<table>
<tr><th>No.</th><th colspan="2">Item</th><th>Specifications</th><th>Testing Method</th></tr>
<tr><td rowspan="5">13</td><td rowspan="5">Humidity Loading</td><td>Appearance</td><td>No marked defect.</td><td rowspan="5">Apply the rated voltage for 500±12 hrs. at 40±2°C in 90 to 95% relative humidity.

Post-treatment:
Capacitor should be stored for 1 to 2 hrs. at room condition*1.</td></tr>
<tr><td>Capacitance Change</td><td>C: Within ±2.5%
L: Within ±5.0%
X, B. E: Within ±10%
F: Within ±15%</td></tr>
<tr><td>D.F.</td><td><table><tr><th>Char.</th><th>Specifications</th></tr><tr><td>C, L</td><td>$Q \geqslant 275+5/2C_R$ (C_R<30pF)
$Q \geqslant 350$ ($C_R \geqslant 30$pF)</td></tr><tr><td>X, B, E</td><td>tanδ≤0.050</td></tr><tr><td>F</td><td>tanδ≤0.075</td></tr></table></td></tr>
<tr><td>I. R.</td><td>3000MΩ min.</td></tr>
<tr><td>Dielectric Strength</td><td>Per Item 6.</td></tr>
<tr><td rowspan="4">14</td><td rowspan="4">Life</td><td>Appearance</td><td>No marked defect.</td><td rowspan="4">Impulse Voltage
Each individual capacitor should be subjected to a 5kV (Type WD: 8kV) impulses for three times. After the capacitors are applied to life test.
 

Apply a voltage of Table 4 for 1000 hrs. at 125+2/-0°C, and relative humidity of 50% max.

<Table 4>
<table><tr><th>Applied Voltage</th></tr><tr><td>AC425V(r.m.s.), except that once each hour the voltage is increased to AC1000V(r.m.s.) for 0.1 sec.</td></tr></table>
Post-treatment:
Capacitor should be stored for 1 to 2 hrs. at room condition*2.</td></tr>
<tr><td>Capacitance Change</td><td>Within ±20%</td></tr>
<tr><td>I. R.</td><td>3000MΩ min.</td></tr>
<tr><td>Dielectric Strength</td><td>Per Item 6.</td></tr>
<tr><td>15</td><td colspan="2">Flame Test</td><td>The capacitor flame discontinues as follows.
<table><tr><th>Cycle</th><th>Time (sec.)</th></tr><tr><td>1 to 4</td><td>30 max.</td></tr><tr><td>5</td><td>60 max.</td></tr></table></td><td>The capacitor should be subjected to applied flame for 15 sec. and then removed for 15 sec. until 5 cycles are completed.
 
</td></tr>
<tr><td rowspan="2">16</td><td rowspan="2">Robustness of Terminations</td><td>Tenslie</td><td rowspan="2">Lead wire should not be cut off. Capacitor should not be broken.</td><td>As shown in the figure at right, fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N and keep it for 10±1 sec.
 
</td></tr>
<tr><td>Bending</td><td>Each lead wire should be subjected to 5N weight and then a 90° bend, at the point of egress, in one direction, return to original position, and then apply a 90° bend in the opposite direction at the rate of one bend in 2 to 3 sec.</td></tr>
</table>

*1 "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa

↗Continued on the following page.