Surge arrester

2-electrode arrester

Series/Type: G31-A500X
Ordering code: B88069X2233****
Date: 2019-11-04
Version: 03
Surge arrester

B88069X2233****

2-electrode arrester

G31-A500X

Features

- Small size
- Fast response time
- Stable performance over life
- Low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- ESD protection
- Applications with limited space

Electrical specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>DC spark-over voltage</th>
<th>Impulse spark-over voltage</th>
<th>Service life</th>
<th>Insulation resistance at 100 V&lt;sub&gt;DC&lt;/sub&gt;</th>
<th>Capacitance at 1 MHz</th>
<th>Arc voltage at 1 A</th>
<th>Glow to arc transition current</th>
<th>Glow voltage</th>
<th>Weight</th>
<th>Operation and storage temperature</th>
<th>Climatic category (IEC 60068-1)</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>500</td>
<td>9) at 100 V/µs - for 99% of measured values</td>
<td>300 operations</td>
<td>&gt; 1</td>
<td>~ 0.2</td>
<td>~40 ... +125</td>
<td>40/125/21</td>
<td>without</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min.</td>
<td>±30</td>
<td>&lt; 1200</td>
<td>10 operations [5× (+) &amp; 5× (–)]</td>
<td>&gt; 100</td>
<td>&lt; 0.5</td>
<td>~ 10</td>
<td>≤ 1.0</td>
<td>≤ 60</td>
<td>10/12/5/1</td>
<td>≤ 0.65</td>
<td>II, DIN ISO 2859</td>
<td>In ionized mode</td>
</tr>
<tr>
<td>Max.</td>
<td>650</td>
<td>&lt; 1400</td>
<td>1 operation</td>
<td>1</td>
<td>~ 0.2</td>
<td>40/125/21</td>
<td>≤ 0.65</td>
<td>II, DIN ISO 2859</td>
<td>In ionized mode</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Tests according to ITU-T Rec. K.12 and UL 1449
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.
Surge arrester  
B88069X2233****  
2-electrode arrester  
G31-A500X

Dimensional drawing in mm

Ordering codes and packing advices

B88069X2233B502 = 500 pcs. on trays (50 pcs. per tray)
Surge arrester

2-electrode arrester

B88069X2233

T103 = 1000 pcs. on tape and reel
Soldering parameter

Wave soldering

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Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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