

## Surge arrester

3-Electrode arrester

**Series/Type: DG3R090M**

**Customer:**

**Version/Date: Issue 01/2013-11-02**

**Surge arrester**

**3-Electrode arrester**

**DG3R090M**

Features	Applications
<ul style="list-style-type: none"> <li>● Extremely small size</li> <li>● Extremely fast response time</li> <li>● Stable performance over life</li> <li>● Very low capacitance</li> <li>● High insulation resistance</li> <li>● RoHS-compatible</li> <li>● UL Certification :E311500</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Splitter</b></li> <li>● <b>PCI Cards</b></li> <li>● <b>Morden</b></li> <li>● <b>Line Cards</b></li> </ul>

**Electrical specifications**

DC breakdown voltage <sup>1)2)</sup>	90	V
Min.	72	V
Max.	108	V
Impulse breakdown voltage		
at 1kv/μs                    –For 99% measure values	≤600	V
Service life		
10 operations                8/20us	5	kA
300 operations            10/1000us	200	A
10 operations               50Hz,1S	5	A
Insulation resistance at DC 100V	≥1	GΩ
Capacitance at 1MHz	≤1.5	pF
Storage and operations temperature	-40...+90	°C
Climatic category (IEC60068-1)	40/90/21	
Marking,Blue positive	DG3R090M	



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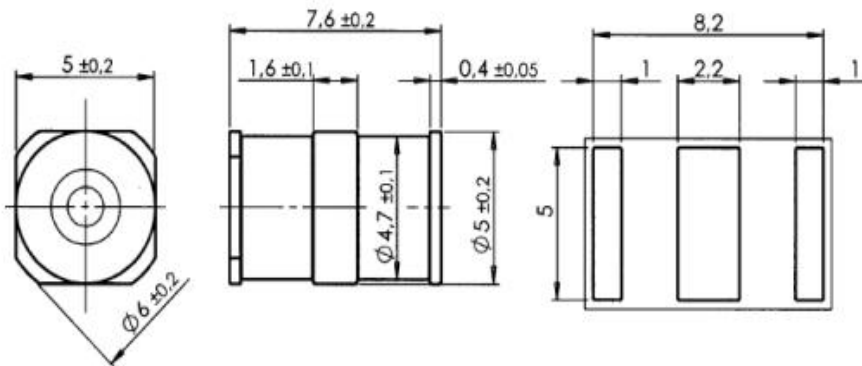
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### 3-Electrode arrester

DG3R090M

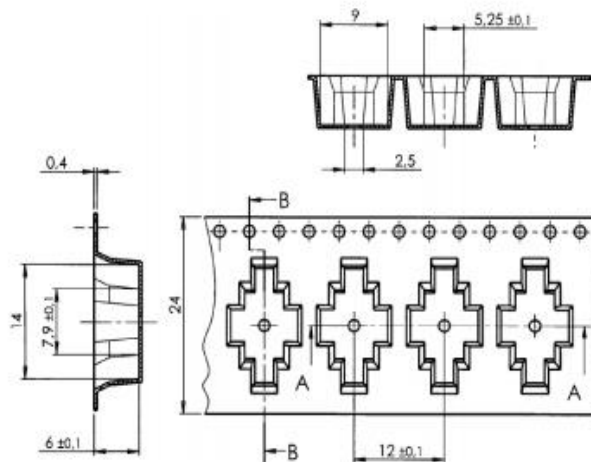
- 1) Sampling size in accordance to AQL0.65 II
  - 2) In ionized mode
  - 3) current from one side electrode to center electrode , and 2 times current through center electrode
- Tests according to ITU-T Rec. K. 12 IEC61663-2 and IEC61643-311

### Dimensions



Tin-plated

Packaging 1000pce/reel



### Cautions and warnings

- Surge arresters must not be operated directly in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- If the contacts of the surge arrester are defective, current stress can lead to the formation of sparks and loud noise.
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

DC Elec.

Issue 01/2013-11-02

Please read Cautions and warnings and important notes at the end of this document.

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