

Surge arrester

2-Electrode arrester

Series/Type: DG2R090M

Customer:

Version/Date: Issue 01/2017-4-7

Surge arrester

2-Electrode arrester

DG2R090M

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

Electrical specifications

DC breakdown voltage ¹⁾²⁾	90	V
Tolerance	±20	%
Min.	72	V
Max.	108	V
Impulse breakdown voltage		
at 1kv/μs –For 99% measure values	≤600	V
Service life		
10 operations 50Hz, 1S	20	A
10 operations 8/20us	20	KA
Insulation resistance at DC 25V	≥1	GΩ
Capacitance at 1MHz	≤1.5	pF
Weight	1.5	g
Storage and operations temperature	-40...+125	°C
Climatic category (IEC60068-1)	40/125/21	
Marking, Red positive	2R090M	



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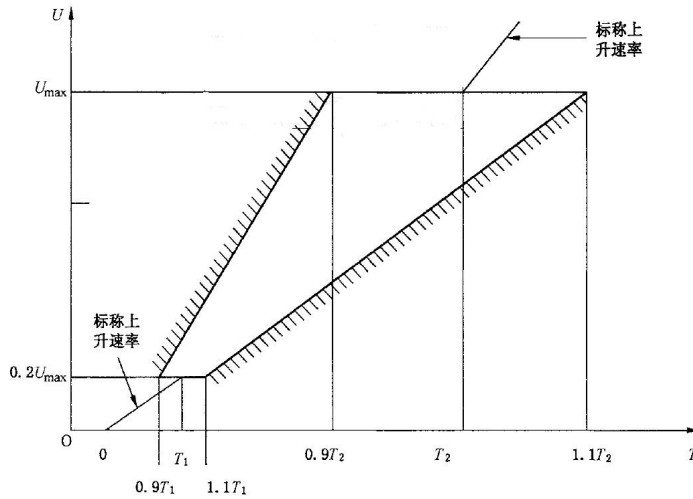
www.jsdgme.com

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DC breakdown voltage



8/20us, Test wave

$$T1=1.25T=8\mu s \pm 20\%$$

$$T2=20\mu s \pm 20\%$$

10/700us, Test Wave

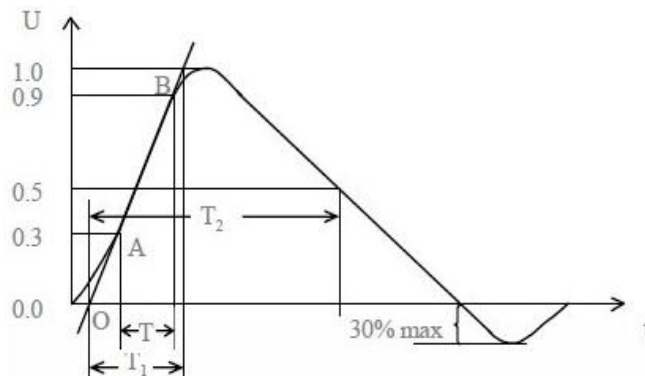
$$T1=1.67T=10\mu s \pm 20\%$$

$$T2=700\mu s \pm 20\%$$

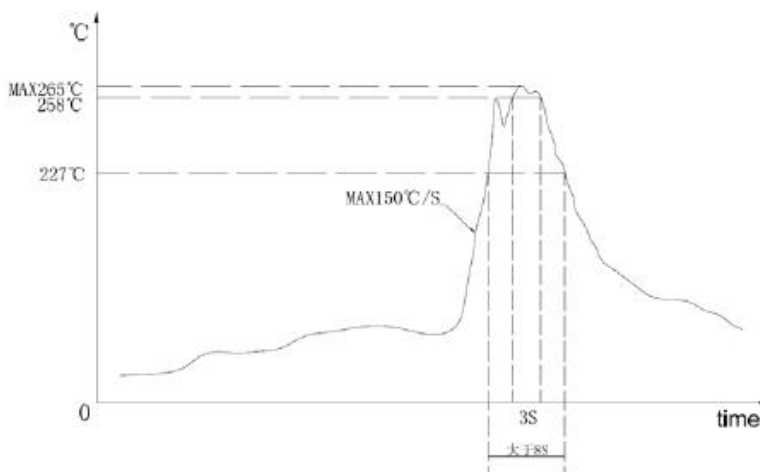
10/1000us, Test Wave

$$T1=1.67T=10\mu s \pm 20\%$$

$$T2=1000\mu s \pm 20\%$$



Recommended wave soldering profile



DC Elec.

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

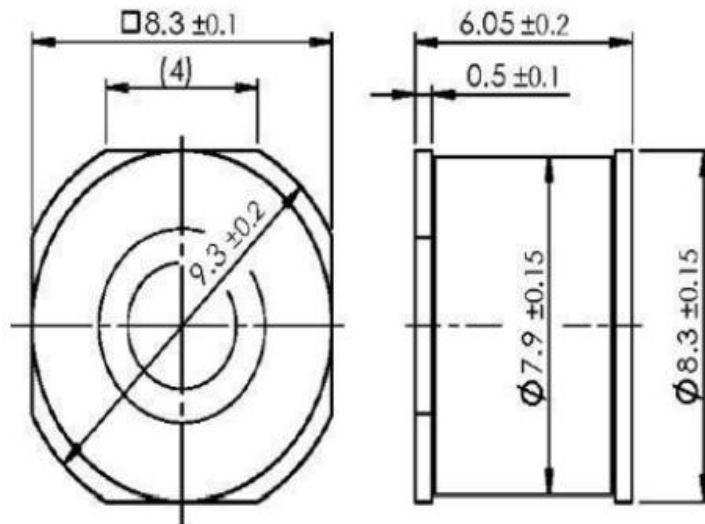
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- 1) Sampling size in accordance to AQL(C=0)
- 2) In ionized mode
- 3) Tests according to ITU-T Rec. K. 12 IEC61663-2 and IEC61643-311

Dimensions



Wire Tin-plated

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.

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