

Surge arrester

2-Electrode arrester

Series/Type: DG2R2500L

Customer:

Version/Date: Issue 01/2017-10-19

Surge arrester

2-Electrode arrester

DG2R2500L

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"> ● Consumer electronics ● AC Power line devices ● Power supplier

Electrical specifications

DC breakdown voltage ¹⁾²⁾	2500	V
Tolerance	±20	%
Min.	2000	V
Max.	3000	V
Impulse breakdown voltage		
-For 99% measure values	≤3500	
at 1kv/us -Typical values of distribution	≤3300	V
Service life		
10 operations 50Hz,1S	5	A
10 operations 8/20us	5	KA
Insulation resistance at DC 100V	≥1	GΩ
Capacitance at 1MHz	≤1.5	pF
AC withstand voltage		
1 S	1250	V
Weight	1.5	g
Storage and operations temperature	-40...+90	°C
Climatic category (IEC60068-1)	40/90/21	
Marking,Blue positive	DG2R2500L	

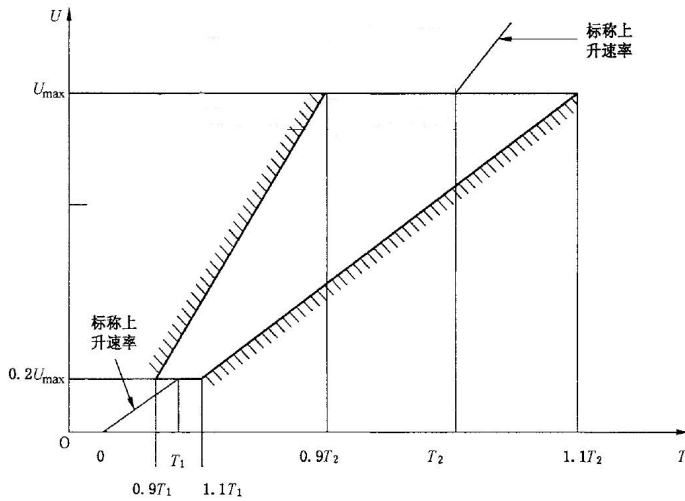


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DC breakdown voltage



8/20us, Test wave

$$T_1 = 1.25T = 8\mu s \pm 20\%$$

$$T_2 = 20\mu s \pm 20\%$$

10/700us, Test Wave

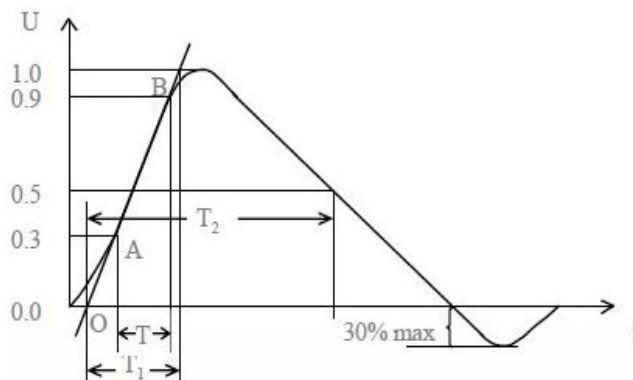
$$T_1 = 1.67T = 10\mu s \pm 20\%$$

$$T_2 = 700\mu s \pm 20\%$$

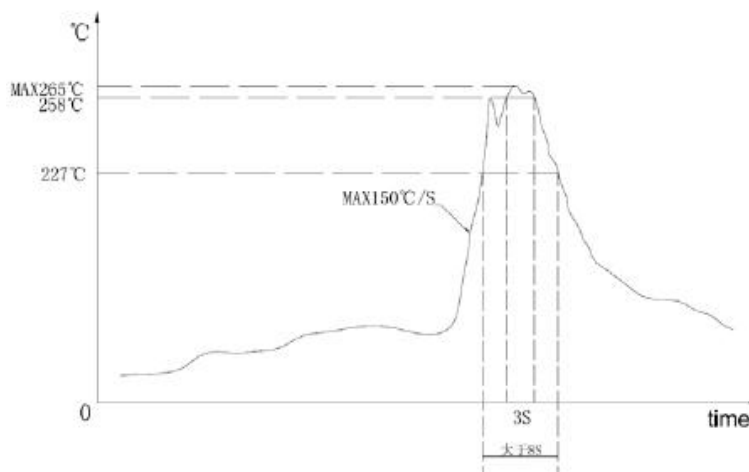
10/1000us, Test Wave

$$T_1 = 1.67T = 10\mu s \pm 20\%$$

$$T_2 = 1000\mu s \pm 20\%$$



Recommended wave soldering profile



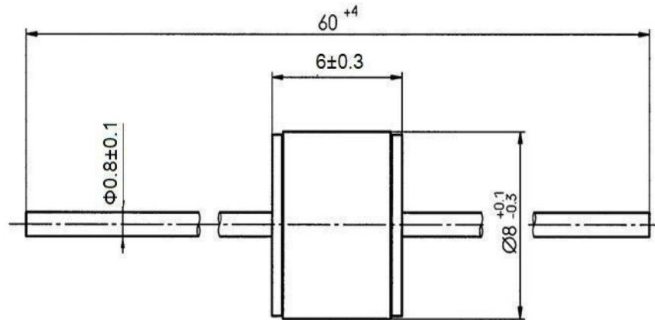
Surge arrester

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DG2R2500L

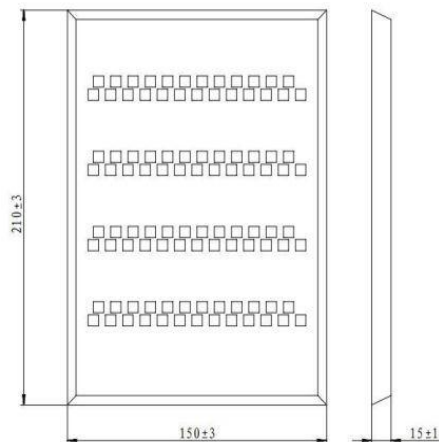
- 1) Sampling size in accordance to AQL(C=0)
- 2) In ionized mode
- 3) Tests according to ITU-T Rec. K. 12 IEC61663-2 and IEC61643-311

Dimensions



Wire Tin-plated

Packaging



100pcs/box

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 Ic
- 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 01/2017-10-19

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

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