Surge arrester

3-Electrode arrester

Series/Type: **DG3R090L**

Customer:

Version/Date: **Issue 01/2015-06-19**

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Surge arrester

3-Electrode arrester DG3R090L

Features	Applications
● Extremely small size	● Splitter
● Extremely fast response time	● PCI Cards
● Eexcllent SMD handing	● Morden
● Stable performance over life	● Line cards
● Very low capacitance	
● High insulation resistance	
● RoHS-compatible	
● UL-identification, No:E311500	

Electrical specifications

DC breakdown voltage [2) 3)]		90	V
——*Circuit current less than 2mA*		±30	%
Impulse breakdown voltage [1)]			
at 1kv/us	-Typical values of distribution	≤600	V
Insulation resistance at DC 100V		≥1	GΩ
Capacitance at 1MHz [2)]		≤1	Pf
Service life [2)]			
10 operations	8/20us	5	KA
10 operations	50Hz,1S	5	A
300 operations	10/1000us	100	A
Weight		1	g
Storage and operations temperature		-40…+90	°C
Climatic category（GB/T 9043，IEC61643-1)		40/90/21	
Marking,Blue positive		**DG3R090L**	

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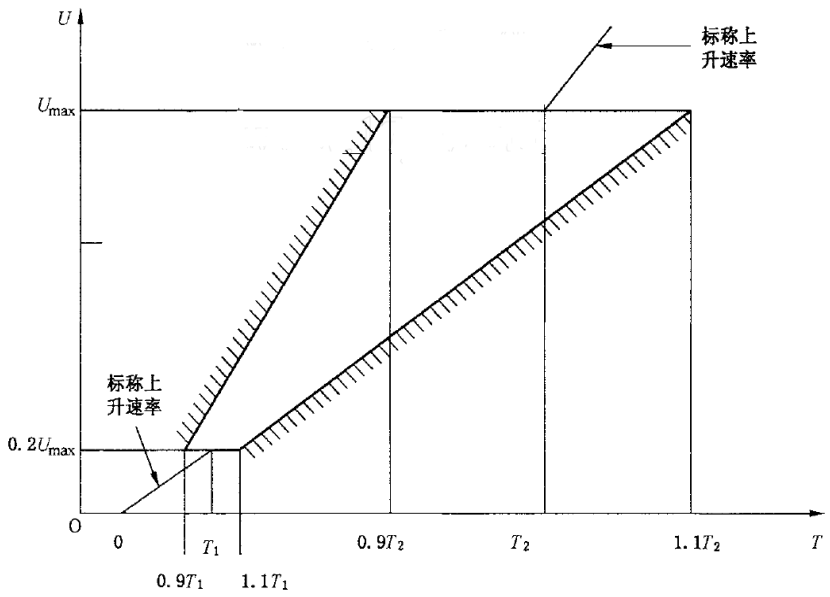
DC breakdown voltage



8/20us, Test wave

T1=1.25T=8us±20%

T2=20us±20%

10/700us,Test Wave

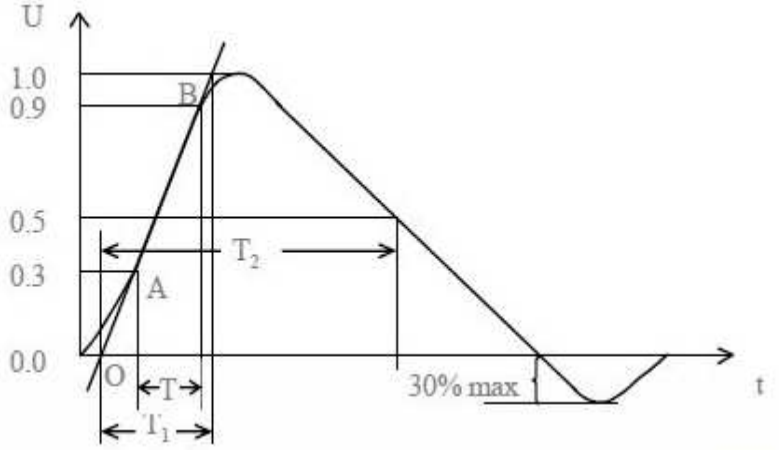
T1=1.67T=10us±20%

T2=700us±20%

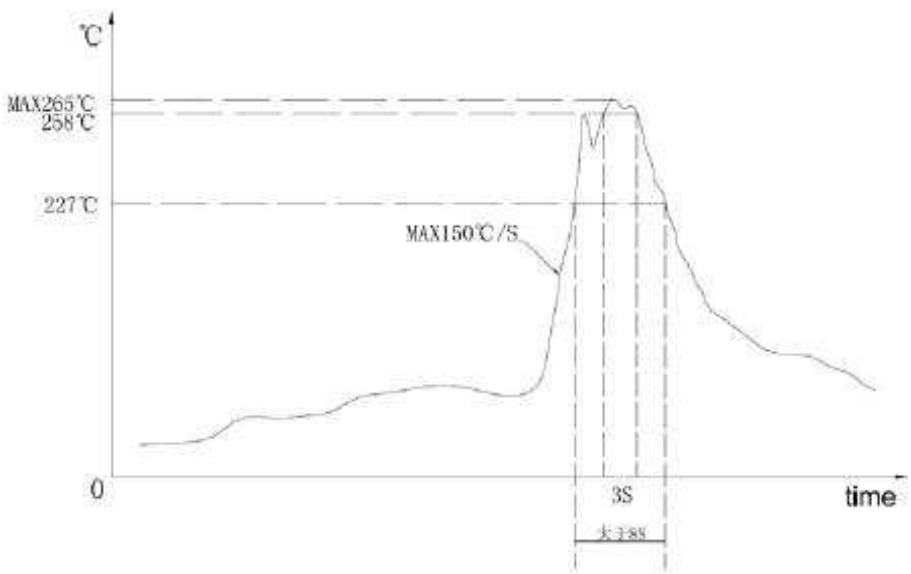
10/1000us,Test Wave

T1=1.67T=10us±20%

T2=1000us±20%



Recommended wave slodering profile



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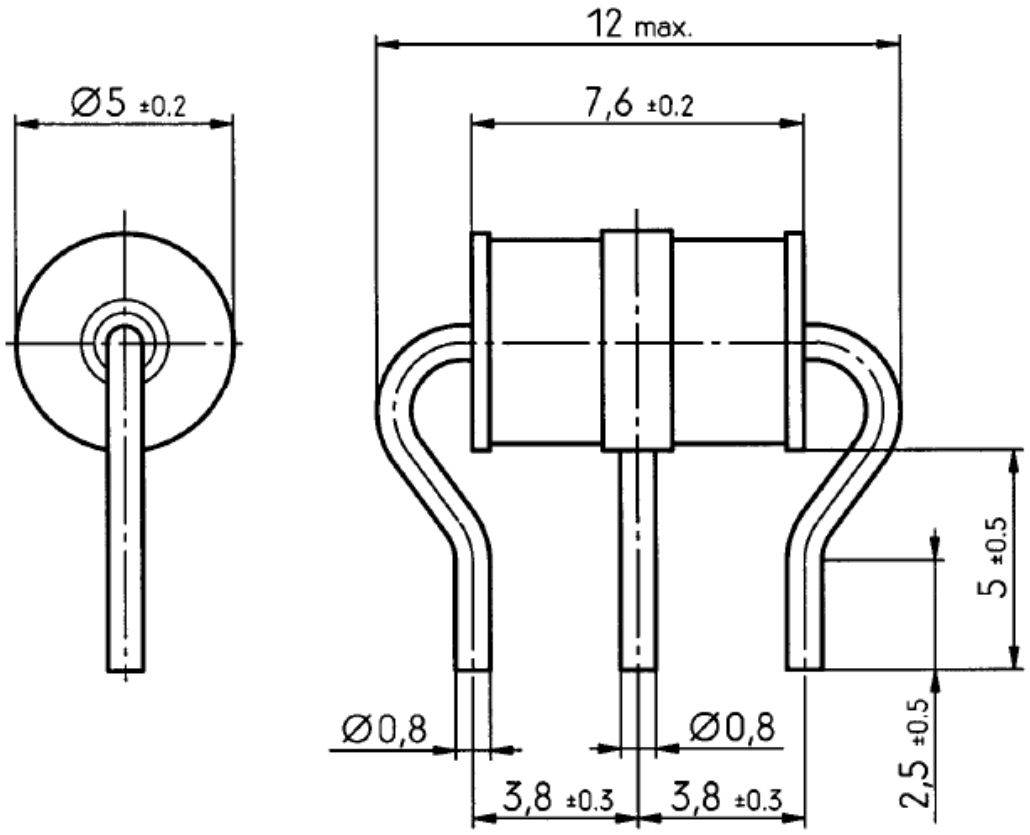
1) Sampling size in accordance to AQL(C=0)
2) DC spark-over voltage ±35% after load
3) Tests according to ITU-T Rec. K. 12 and IEC61643-1

Dimensions



Tin-plated Dimensions in mm

Cautions and warnings

- Surge arresters must not be operated directly in power supply networks
- 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 noises.
- 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.