Surge arrester

2-Electrode arrester

Series/Type: **DG2R350S**

Customer:

Version/Date: **Issue 01/2017-5-17**

2-Electrode arrester **DG2R350S**

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

Electrical specifications

DC breakdown voltage [2) 3)]	350	V
at 100v/s -Circuit current less than 2mA	±20	%
Impulse breakdown voltage [1)]		
at 1kv/us -Typical values of distribution	⩽650	V
Insulation resistance at DC 100V	⩾1	GΩ
Capacitance at 1MHz [2)]	⩽1.5	Pf
Service life [2)]		
10 operations 8/20us	5	KA
Weight	~0.5	g
Storage and operations temperature	-40…+90	°C
Climatic category（GB/T 9043，IEC61643-1)	40/90/21	
Marking	**Without**	

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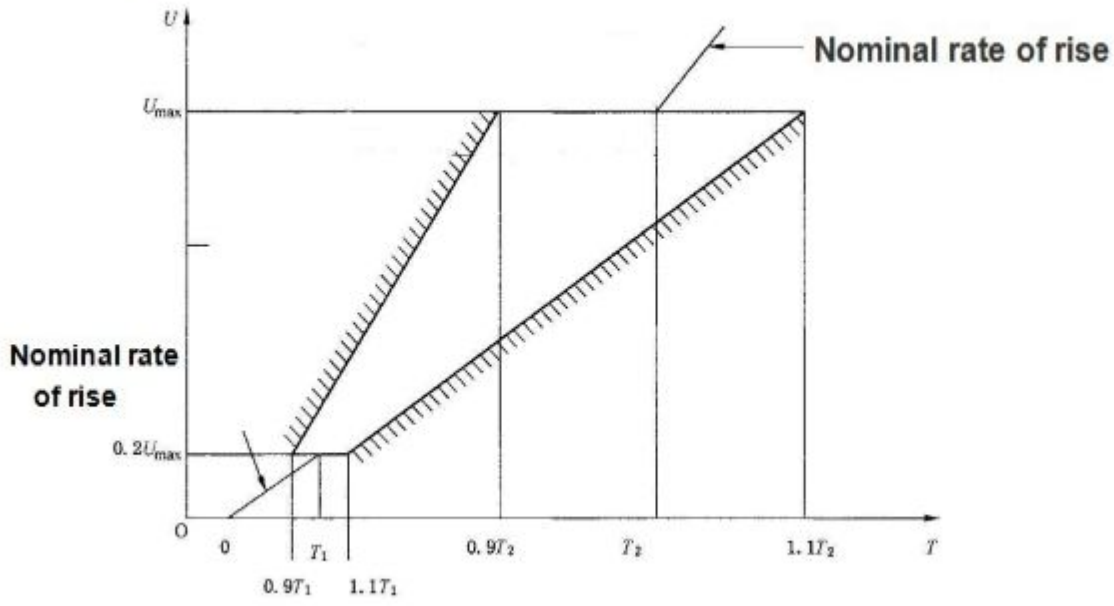
DC breakdown voltage



8/20us, Test wave

T1=1.25T=8us±20%

T2=20us±20%

10/700us,Test Wave

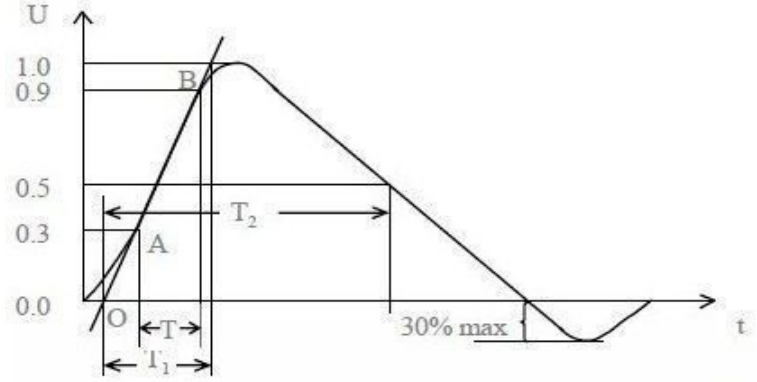
T1=1.67T=10us±20%

T2=700us±20%

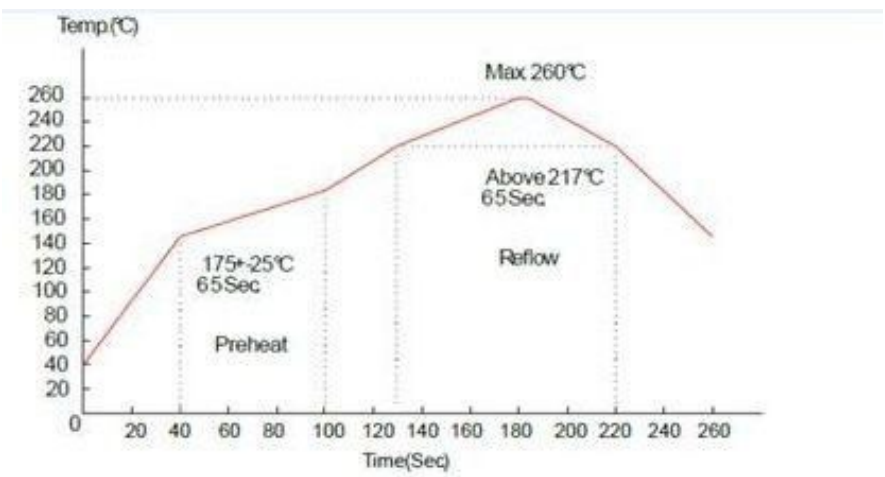
10/1000us,Test Wave

T1=1.67T=10us±20%

T2=1000us±20%



Recommended wave slodering profile



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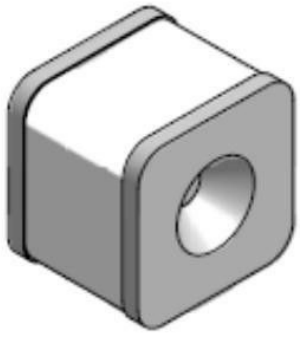
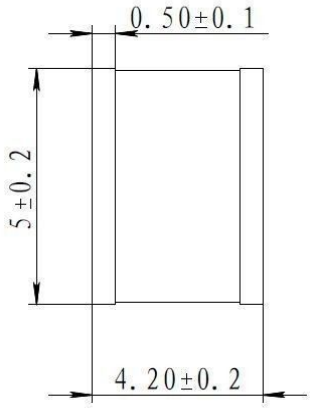
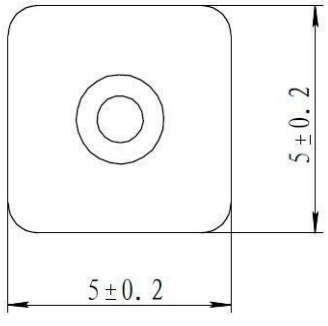
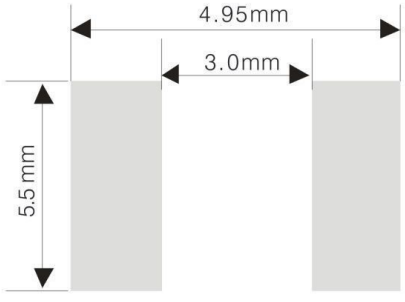
1) Sampling size in accordance to AQL(C=0)
2) DC spark-over voltage ±35% after load
3) Tests according to ITU-T Rec. K. 12 and IEC61643-1

Dimensions





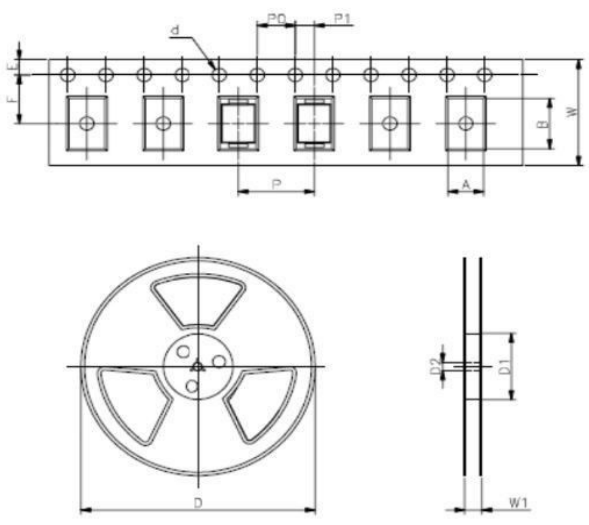




Tin-plated

Recommended pad outline

Package *1000pcs/one reel*



REF	mm	inch
A	5.3±0.1	0.209±0.004
B	4.5±0.2	0.177±0.008
d	Φ1.5±0.1	Φ0.059±0.004
P0	4.0±0.1	0.157±0.004
P1	2.0±0.1	0.079±0.004
P	12.0±0.1	0.472±0.004
E	1.75±0.1	0.069±0.004
F	7.5±0.1	0.295±0.004
W	16.0±0.3	0.630±0.012
D	Φ330.0	Φ13.0
D1	Φ50Min	Φ1.97Min
D2	Φ13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

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.