

Surge arrester

2-Electrode arrester

Series/Type: DG2R420M

Customer:

Version/Date: Issue 01/2017-04-12

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2-Electrode arrester **DG2R420M**

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)}	400	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	Pf
Service life ²⁾		
10 operations 8/20us	2.5	KA
1 operations 8/20us	5	KA
Weight	~0.4	g
Storage and operations temperature	-40+90	°C
Climatic category (GB/T 9043, IEC61643-1)	40/90/21	
Marking,Blue positive	2R420	,







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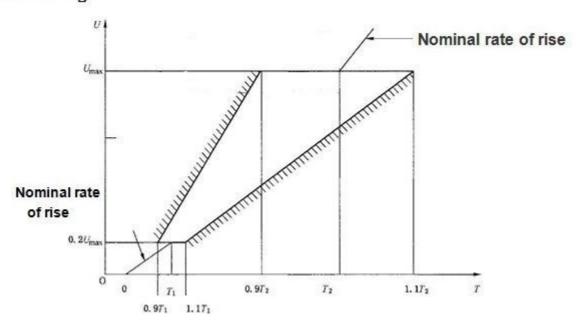
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DC breakdown voltage



8/20us, Test wave

T1=1.25T=8us±20%

T2=20us±20%

10/700us, Test Wave

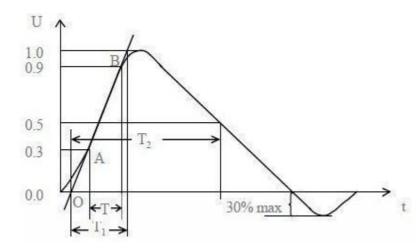
T1=1.67T=10us±20%

T2=700us±20%

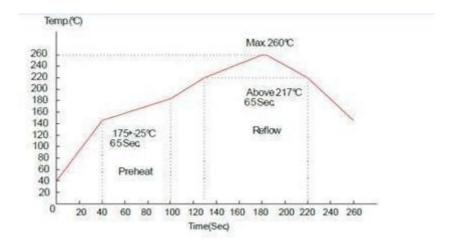
10/1000us, Test Wave

T1=1.67T=10us±20%

T2=1000us±20%



Recommended wave slodering profile

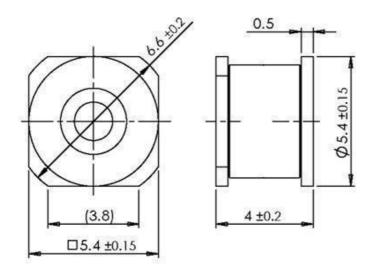


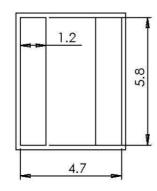
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- 1) Sampling size in accordance to AQL(C=0)
- 2) DC spark-over voltage ±30% after load
- 3) Tests according to ITU-T Rec. K. 12 and IEC61643-1 Dimensions

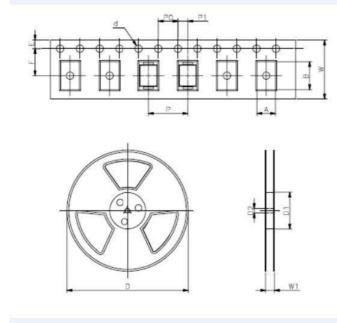




Wire Tin-plated

Packaging

One reel with 800pcs



REF	mm	inch
Α	5.3±0.1	0.209±0.004
В	4.5±0.2	0.177±0.008
d	Φ1.5±0.1	Ф 0.059±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
Е	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	Ф330.0	Ф13.0
D1	Φ50Min	Ф1.97Min
D2	Ф13±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.

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