

Surge arrester

2-Electrode arrester

Series/Type: **8×6 series L-KLS5-GDTH8060**

Version/Date: **Issue 01/2018-01-02**

NINGBO KLS ELECTRONIC CO., LTD.

Surge arrester

2-Electrode arrester

L-KLS5-GDTH8060

Features	Applications
● Extremely small size ● Extremely fast response time ● Stable performance over life ● Very low capacitance ● Low insertion loss ● SGS-compatible	● Communication equipment ● Telecom SLIC protection ● Power supplier ● Broadband equipment

Electrical Characteristics

Part Number	DC Spark-over Voltage	Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Service Life		
							Nominal Impulse Discharge Current	Max Impulse Discharge Current	Nominal Discharge Current
							@8/20μs ±5 times	@8/20μs 1 time	@50Hz 1 Sec 10 times
L-KLS5-GDTH8060-2R75L	75V±20%	≤500	≤600	1 GΩ (At 25V)	<1.5pF	~15V	10KA	20KA	10A
L-KLS5-GDTH8060-2R90L	90V±20%	≤500	≤600	1 GΩ (At 50V)	<1.5pF	~15V	10KA	20KA	10A
L-KLS5-GDTH8060-2R150L	150V±20%	≤500	≤650	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R230L	600V±20%	≤600	≤700	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R250L	250V±20%	≤600	≤750	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R350L	350V±20%	≤800	≤900	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R400L	400V±20%	≤900	≤1000	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R470L	470V±20%	≤1000	≤1100	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R500L	500V±20%	≤1100	≤1200	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R600L	600V±20%	≤1200	≤1300	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A
L-KLS5-GDTH8060-2R800L	800V±20%	≤1400	≤1600	1 GΩ (At 100V)	<1.5pF	~20V	10KA	20KA	10A

Materials	Nickel-plated with tinplate wires
Product Marking (Blue positive)	86 2RXXXL XXX -Nominal voltage
Storage and Operational Temperature	-40 to +90°C
Weight	~1.5g
Climatic category (IEC 60068-1)	40/ 90/ 21

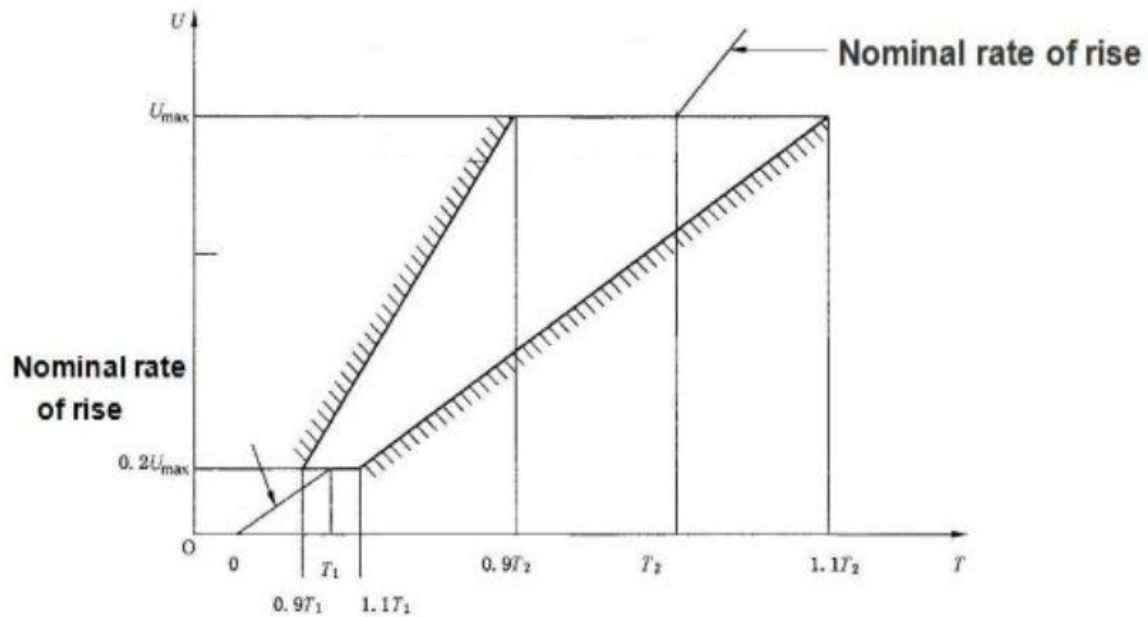
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DC breakdown voltage



8/20us, Test wave

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

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

10/700us, Test Wave

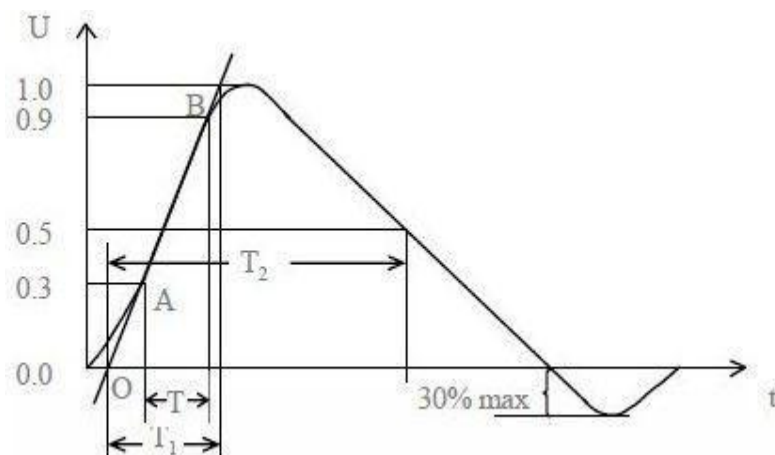
$T_1 = 1.67T = 10\mu s \pm 20\%$

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

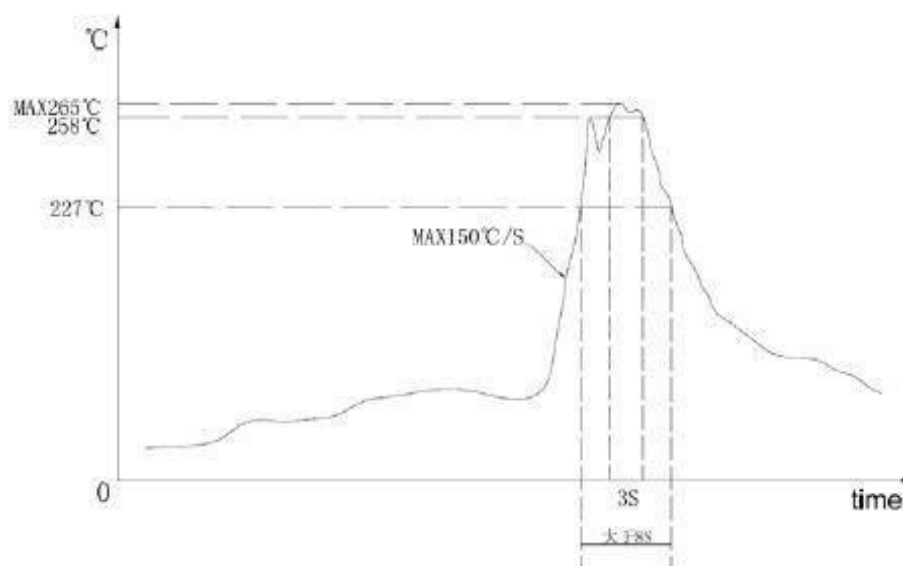
10/1000us, Test Wave

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

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



Recommended wave soldering profile



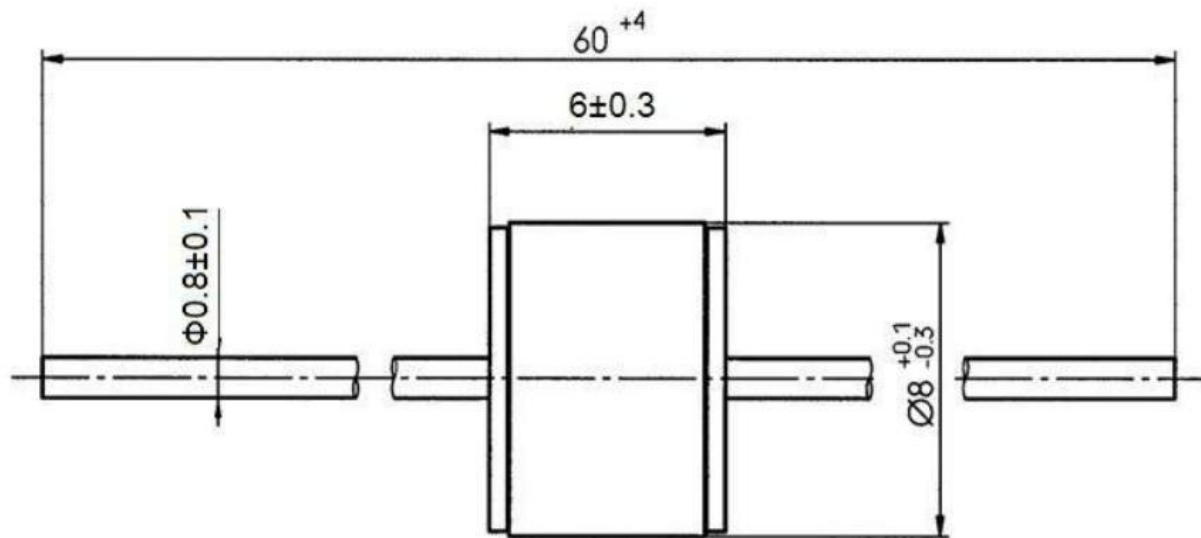
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Dimensions



Wire Tin-plated

Packaging

100pcs/box; 1000pcs/carton; 5000pcs/carton

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 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.