

**JX2R800-5R****Gas Discharge Tube Surge arrester**

Features	Applications
● Built-in Linear Resistor Trigger and Fast Response ● High Current handing Capability 20,000A@8/20us ● Eexcellent SMD handing ● Stable performance over life ● Very low capacitance ● High insulation resistance ● Storage and operating temperature -40...+125°C ● RoHS-compatible ● UL-identification,	● DC-48V Power Port ● Wireless Base Station ● Morden ● Line cards

Electrical specifications

DC Breakdown Voltage	100V/s	680~1000(Before) 500~1200(After)	V V
Impulse Spark-Over Voltage	1.2/50us-8/20us 6KV/3KA	2300	V
Impulse Discharge Current	8/20us,+/-5times	20	KA
Impulse Discharge Current	10/350us,+/-5times	2.5	KA
Insulation Resistance	DC 100V	1G	Ω
Normal operating DC Voltage Un(A-B)		60	V
Normal operating DC Voltage Uc(A-B)		70	V
Co(1MHz)	Vdc=0.5V	≤1.5	Pf
Arc Voltage	At 1A	≥80	V
Operating and storage Temperature		-40~90	°C
Weight		~6.2	g
Marking		Without	

Part Number Code

J	X	2	R	8	0	0	5R
↓		↓		↓			↓
JuXing		2R series		DC Voltage			5R:Five layers

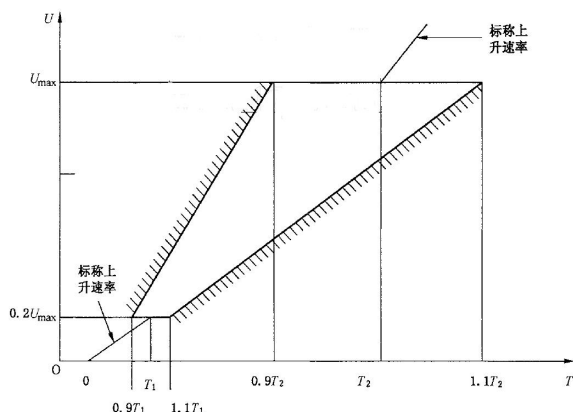
Cautions and warnings

- 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.





DC breakdown voltage



8/20us, Test wave

$$T1=1.25T=8\mu s\pm 20\%$$

$$T2=20\mu s\pm 20\%$$

10/700us, Test Wave

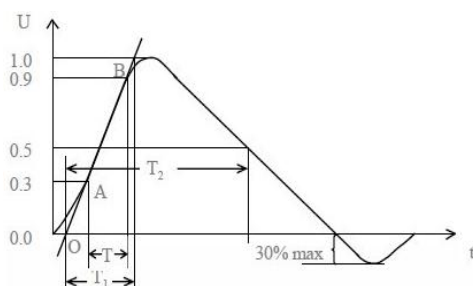
$$T1=1.67T=10\mu s\pm 20\%$$

$$T2=700\mu s\pm 20\%$$

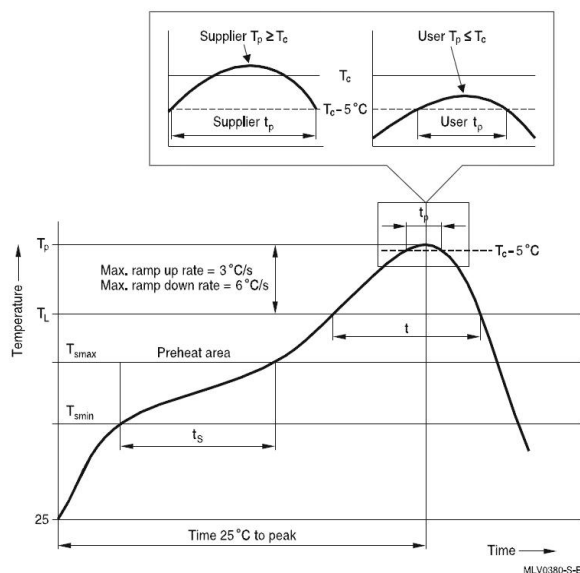
10/1000us, Test Wave

$$T1=1.67T=10\mu s\pm 20\%$$

$$T2=1000\mu s\pm 20\%$$



Recommended wave soldering profile



Reflow profile features		Sn- Pb eutectic assembly	Pb-free assembly
Preheat and soak - Temperature min - Temperature max - Time	T _{sm} T _{sm} t _{sm} to t _{sm}	100 °C 150 °C 60 ... 120 s	150 °C 200 °C 60 ... 180 s
Average ramp-up rate	T _{sm} to T _p	max. 3 °C/ s	max. 3 °C/ s
Liquidous temperature Time at liquidous	T _L t _L	183 °C 60 ... 150 s	217 °C 60 ... 150 s
Peak package body temperature *, Classification temperature **	T _p , T _c	220 ... 235 °C **	245 ... 260 °C **
Time (t _p) ** within 5 °C of the specified classification temperature (T _c)		20 s ***	30 s ***
Average ramp-down rate	T _p to T _{sm}	max. 6 °C/ s	max. 6 °C/ s
Time 25 °C to peak temperature		max. 6 min	max. 8 min

* = Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.
** = For details please refer to JEDEC J-STD-020D.
*** = Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

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

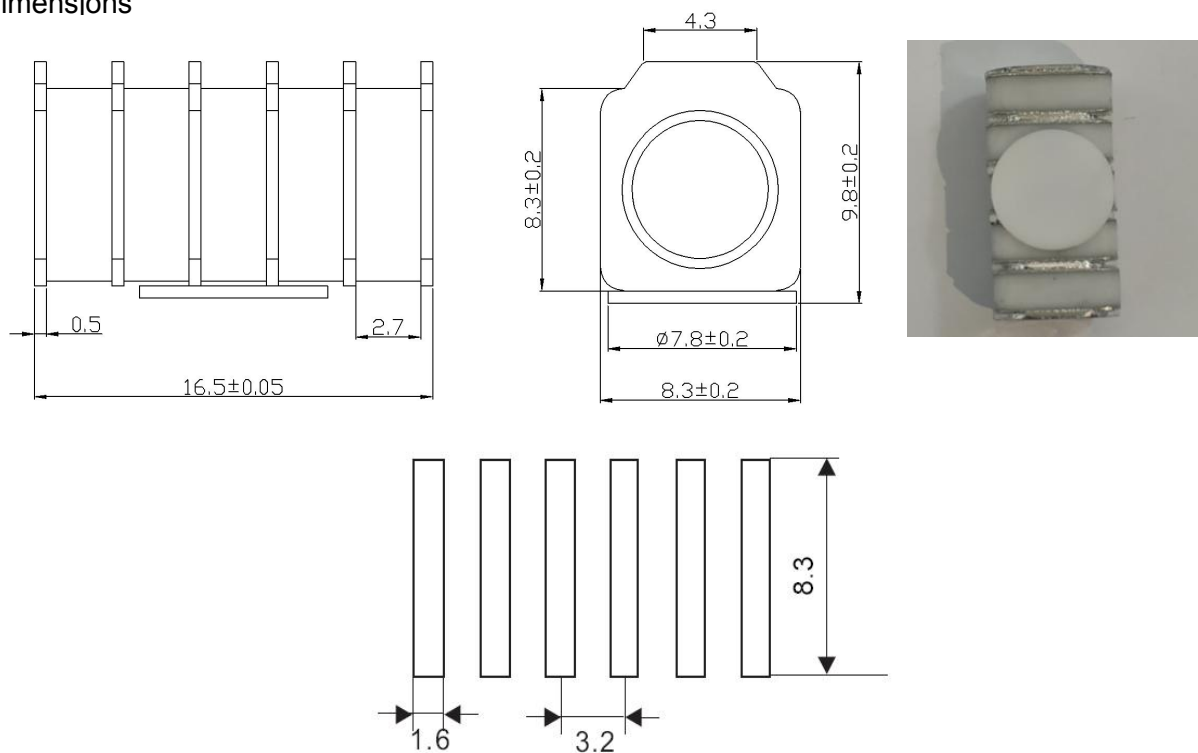




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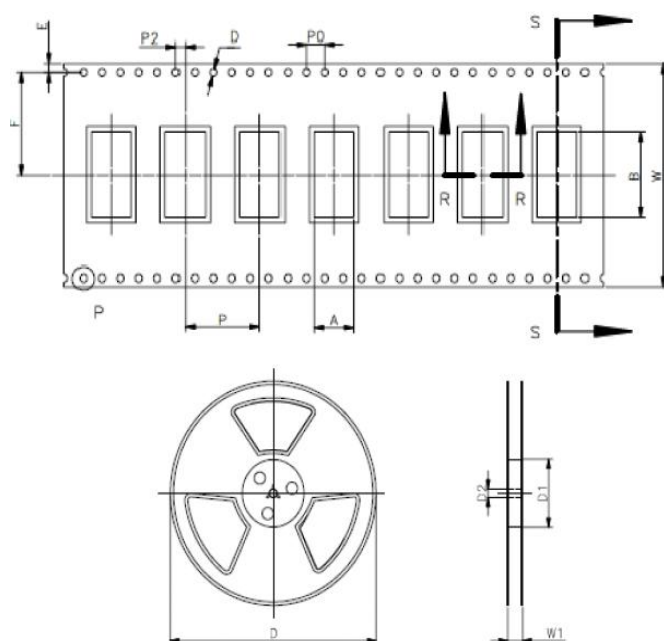
Gas Discharge Tube Surge arrester

Dimensions



Dimensions in millimeters

Packaging



REF	mm	inch
W	44±0.3	1.733±0.012
A	8.6±0.3	0.339±0.012
B	20.3±0.3	0.799±0.012
P	16±0.1	0.63±0.004
P0	4±0.1	0.157±0.004
P2	2±0.1	0.079±0.004
D	$\phi 1.5^{+0.1}_{-0}$	$\phi 0.059^{+0.004}_{-0}$
E	1.75±0.1	0.069±0.004
F	20.25±0.1	0.797±0.004
W1	48±2.0	1.89±0.079
D	$\Phi 330.2$	$\Phi 13$
D1	$\Phi 100 \pm 1$	$\Phi 3.94 \pm 0.039$
D2	$\Phi 13 \pm 0.15$	0.512±0.006

250pcs/reel