



## J10GxxxM2LC Gas Discharge Tube

Rev.1.1

### FEATURE

- ✧ Eliminates small size design EIA  $8.0 \times 6.0\text{mm}$ .
- ✧ Current handling capability  $10,000\text{A} @ 8/20\mu\text{s}$ .
- ✧ Low capacitance and insertion loss.
- ✧ Fast response and long service life.
- ✧ Reliable to protect electrostatic surge.
- ✧ Moisture sensitivity level: Level 1.



Exterior



Schematic symbol

### APPLICATION INFORMATION

- ✧ Repeaters, modems.
- ✧ Telephone interface, line cards.
- ✧ Data communication equipment.
- ✧ Line test equipment.

### ELECTRICAL CHARACTERISTICS

Part number	DC breakdown voltage 100V/s(V)	Tolerance of $V_s$	Impulse spark-over voltage 1KV/ $\mu\text{s}$ (V)	Impulse discharge current 8/20 $\mu\text{s}$ (A)	Insulation resistance		$C_o$ (1MHz)
					G $\Omega$	DC(V)	
J10G091M2LC	90	$\pm 20\%$	$\leq 700$	10,000	$\geq 1$	50	$\leq 1.5\text{pF}$
J10G471M2LC	470	$\pm 20\%$	$\leq 1100$	10,000	$\geq 1$	100	$\leq 1.5\text{pF}$
J10G601M2LC	600	$\pm 20\%$	$\leq 1400$	10,000	$\geq 1$	100	$\leq 1.5\text{pF}$
J10G801M2LC	800	$\pm 20\%$	$\leq 1600$	10,000	$\geq 1$	100	$\leq 1.5\text{pF}$
J10G102M2LC	1000	$\pm 20\%$	$\leq 1800$	10,000	$\geq 1$	100	$\leq 1.5\text{pF}$
J10G152M2LC	1500	$\pm 20\%$	$\leq 2700$	10,000	$\geq 1$	100	$\leq 1.5\text{pF}$

1. The parameters of all tested by ITU-T K12.
2. Total Impulse discharge current  $10,000\text{A} @ 8/20\mu\text{s}$  by IEC 61000-4-5, 10 shots.
3. The capacitance is tested by  $1\text{MHz} @ \text{DC}=0.5\text{V}$ .
4. The V-T waveform of DCBV and IPBV mus lie between the shades.

## PART NUMBERING SYSTEM

J10G   601   M   2L   C  
 (1)   (2)   (3)   (4)   (5)

(1) JieJie 10KA gas discharge tube

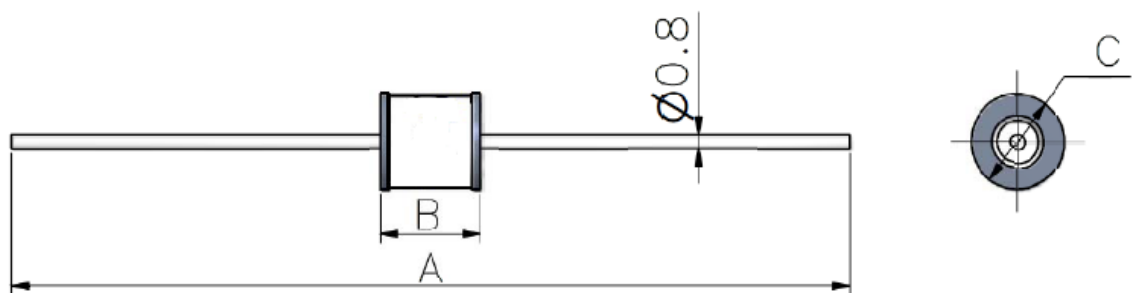
(2) DC breakdown voltage, e.g., 601 =  $60 \times 10^1 = 600V$

(3) Tolerance is DC breakdown voltage, M=+-20%, N=+-30%

(4) 2-electrod DIP

(5) Dimension in  $8.0 \times 6.0$  (mm)

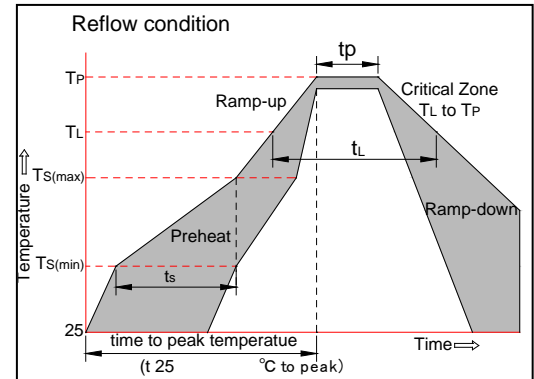
## PRODUCT DIMENSIONS (unit: mm)



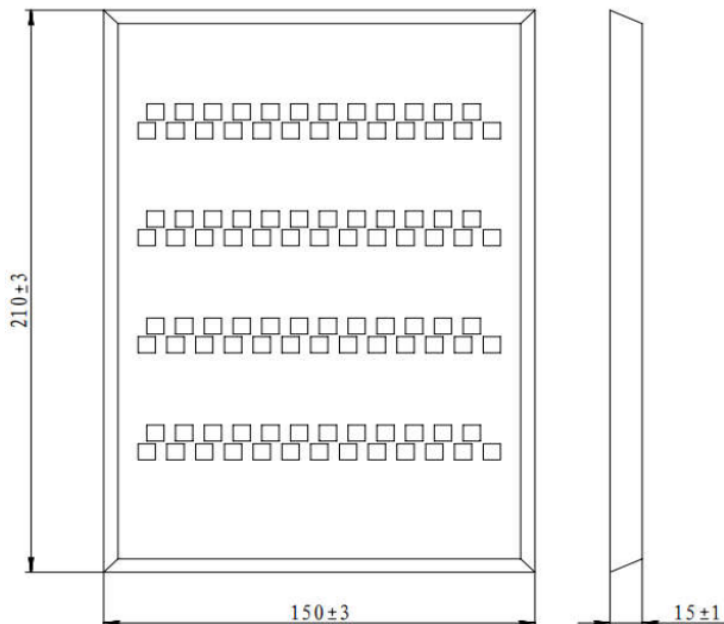
REF	mm	inch
A	$62 \pm 2$	$2.441 \pm 0.079$
B	$6 \pm 0.2$	$0.236 \pm 0.008$
C	$\Phi 8 \pm 0.2$	$\Phi 0.315 \pm 0.008$
D	$\Phi 0.8 \pm 0.06$	$\Phi 0.0315 \pm 0.0024$

## REFLOW PROFILE

Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min ( $T_{s(min)}$ )	+150°C
	-Temperature Max( $T_{s(max)}$ )	+200°C
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp ( $T_L$ ) to peak)		3°C/sec. Max
$T_{s(max)}$ to $T_L$ - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature( $T_L$ )(Liquidus)	+217°C
	-Temperature( $t_L$ )	60-150 secs.
Peak Temp ( $T_p$ )		+260(+0/-5)°C
Time within 5°C of actual Peak Temp ( $t_p$ )		~10 secs.
Ramp-down Rate		6°C/sec. Max
Time 25°C to Peak Temp ( $T_p$ )		8 min. Max
Do not exceed		+260°C



## PACKAGE BOX INFORMATION



100pcs/box

**PACKAGING**

Part No.	BOX Quantity (pcs)	Per Carton (pcs)
J10GxxxM2LC	100	10,000

Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co.,Ltd assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the first version which is made in 21-Aug.-2017. This document supersedes and replaces all information previously supplied.



is a registered trademark of Jiangsu JieJie Microelectronics Co.,Ltd.

Copyright©2017 Jiangsu JieJie Microelectronics Co.,Ltd. Printed All rights reserved.