J10GxxxM2LC Gas Discharge Tube

Rev.1.1

FEATURE

- ✧ Eliminates small size design EIA 8.0×6.0mm.
- ✧ Current handling capability 10,000A@8/20μs.
- ✧ 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/μs(V)	Impulse discharge current 8/20μs(A)	Insulation resistance		C_O
					GΩ	DC(V)	(1MHz)
J10G091M2LC	90	±20%	≤700	10,000	≥1	50	≤1.5pF
J10G471M2LC	470	±20%	≤1100	10,000	≥1	100	≤1.5pF
J10G601M2LC	600	±20%	≤1400	10,000	≥1	100	≤1.5pF
J10G801M2LC	800	±20%	≤1600	10,000	≥1	100	≤1.5pF
J10G102M2LC	1000	±20%	≤1800	10,000	≥1	100	≤1.5pF
J10G152M2LC	1500	±20%	≤2700	10,000	≥1	100	≤1.5pF

1. The parameters of all tested by ITU-T K12.
2. Total Impulse discharge current 10,000A@ 8/20μs by IEC 61000-4-5, 10 shots.
3. The capacitance is tested by 1MHz@DC=0.5V.
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

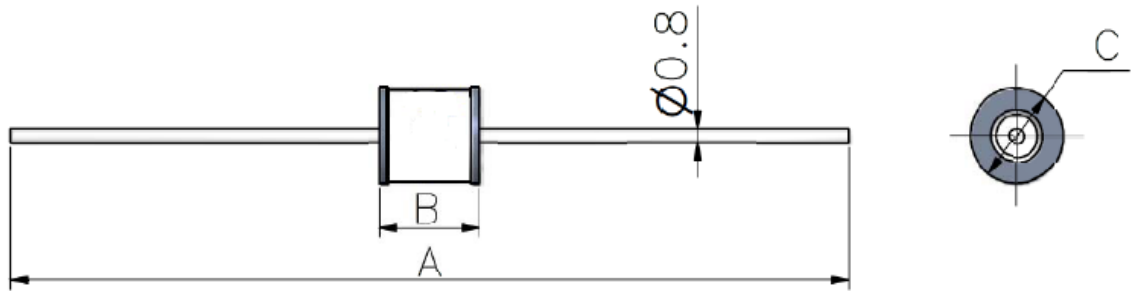
(2) DC breakdown voltage, e.g.,601=60×10^1=600V

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

(4) 2-electrod DIP

(5) Dimension in 8.0×6.0 (mm)

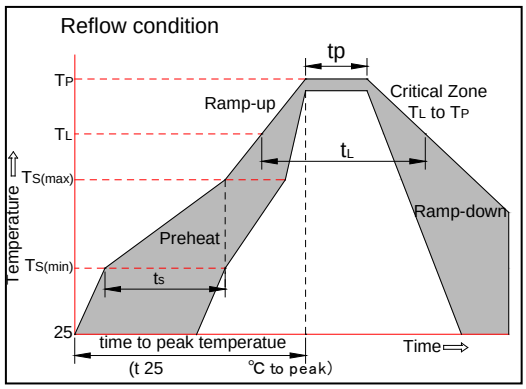
PRODUCT DIMENSIONS (unit: mm)



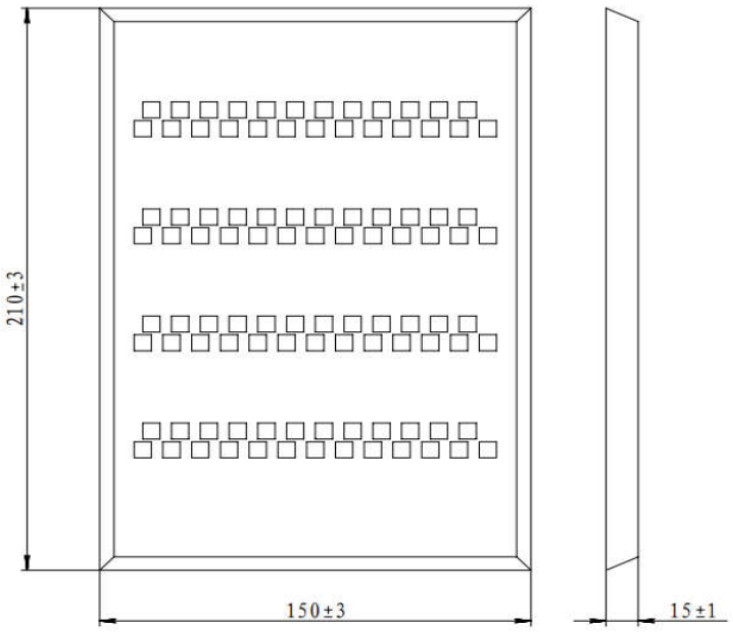
REF	mm	inch
A	62±2	2.441±0.079
B	6±0.2	0.236±0.008
C	Φ8±0.2	Φ0.315±0.008
D	Φ0.8±0.06	Φ0.0315±0.0024

REFLOW PROFILE

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



PACKAGE BOX INFORMATION



100pcs/box

PACKAGING

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