



J20GxxxM2LC Gas Discharge Tube

Rev.1.1

FEATURE

- ✧ Eliminates small size design EIA 8.0×6.0mm.
- ✧ Current handling capability 20,000A@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 (1MHz)
					GΩ	DC(V)	
J20G091M2LC	90	±20%	≤700	20,000	≥1	100	≤1.5pF
J20G231M2LC	230	±20%	≤800	20,000	≥1	100	≤1.5pF
J20G471M2LC	470	±20%	≤1100	20,000	≥1	100	≤1.5pF
J20G601M2LC	600	±20%	≤1300	20,000	≥1	100	≤1.5pF

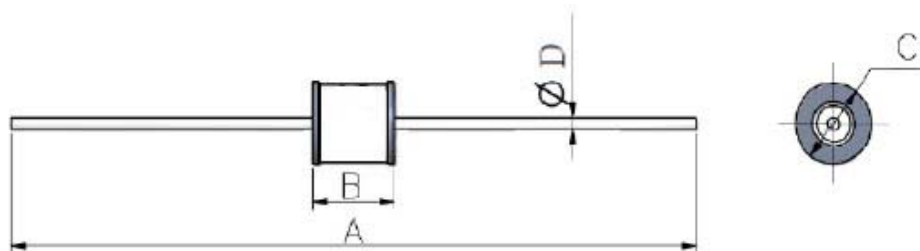
1. The parameters of all tested by ITU-T K12.
2. Total Impulse discharge current 20,000A @ 8/20μs by IEC 61000-4-5, 10 shots.
3. The capacitance is tested by 1MHz@DC=0.5V.
4. The V-T waveform of DCBV and IPBV mus lie between the shades.

PART NUMBERING SYSTEM

J20G 471 M 2L C
 (1) (2) (3) (4) (5)

- (1) JieJie 20kA gas discharge tube
- (2) DC breakdown voltage, e.g., 471=47×10¹=470V
- (3) Tolerance is DC breakdown voltage, M=+-20%, N=+-30%
- (4) 2-electrod DIP
- (5) Dimension in 8.0×6.0 (mm)

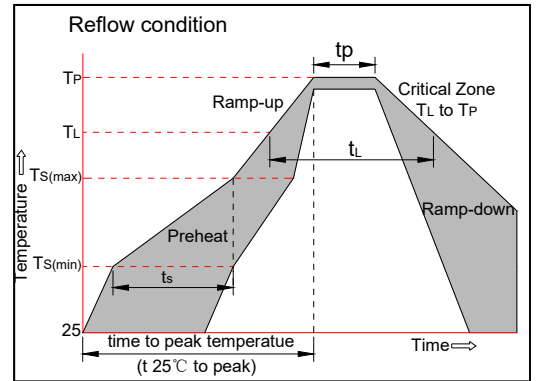
PRODUCT DIMENSIONS (unit: mm)



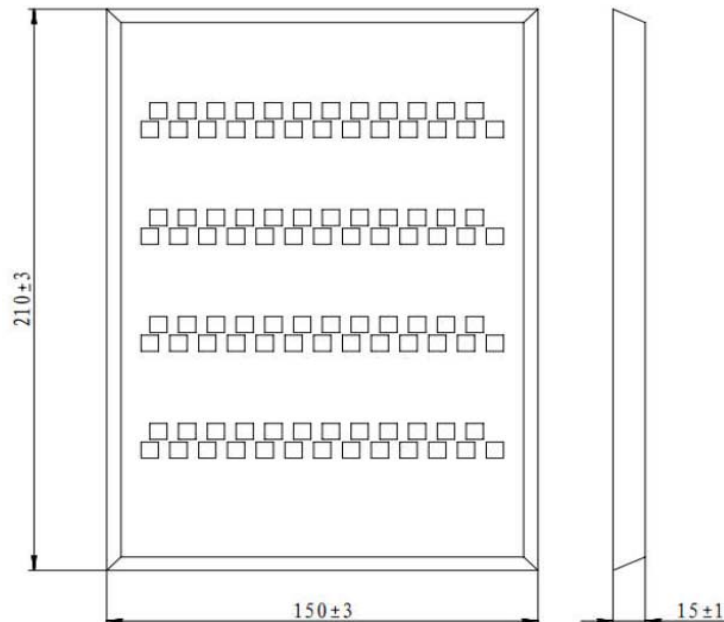
REF	mm	inch
A	62±2	2.441±0.079
B	6±0.2	0.236±0.008
C	Φ8±0.2	Φ0.315±0.008
D	Φ1.0±0.06	Φ0.0394±0.0024

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)
J20GxxxM2LC	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 1.1st version which is made in 13-July-2023. This document supersedes and replaces all information previously supplied.

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

Copyright©2023 Jiangsu JieJie Microelectronics Co.,Ltd. Printed All rights reserved.