

# JIEJIE MICROELECTRONICS CO., LTD

# J20GxxxM2LC Gas Discharge Tube

Rev.1.3

#### **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	Tolerance	Impulse spark-over	Impulse discharge		lation stance	Со	Marking
	voltage 100V/s(V)	of V <sub>S</sub>	voltage 1KV/µs(V)	current 8/20µs(A)	GΩ	DC(V)	(1MHz)	code
J20G091M2LC	90	±20%	≤700	20,000	≥1	100	≤1.5pF	2R90
J20G231M2LC	230	±20%	≤800	20,000	≥1	100	≤1.5pF	2R230
J20G471M2LC	470	±20%	≤1100	20,000	≥1	100	≤1.5pF	2R470
J20G601M2LC	600	±20%	≤1300	20,000	≥1	100	≤1.5pF	2R600

- 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**

<u>J20G</u> <u>471</u> <u>M</u> <u>2L</u> <u>C</u> (1) (2) (3) (4) (5)

(1)JieJie 20kA gas discharge tube

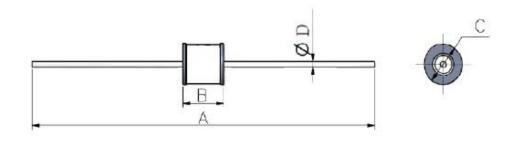
(2) DC breakdown voltage, e.g.,471=47×10<sup>1</sup>=470V

(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)**

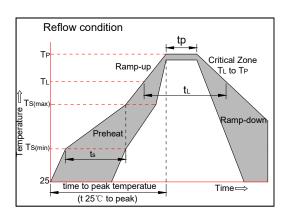


REF	mm	inch
A	62±2	2.441±0.079
В	6±0.2	0.236±0.008
C	Φ8±0.2	Ф0.315±0.008
D	Ф1.0±0.06	Ф0.0394±0.0024

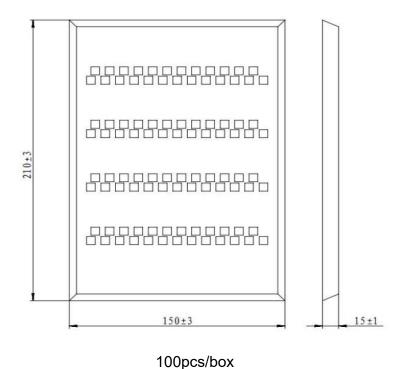


### **REFLOW PROFILE**

Reflow Condition		Pb-Free assembly (see figure at right)	
Pre Heat	-Temperature Min (T <sub>s(min)</sub> )	+150℃	
	-Temperature Max(T <sub>s(max)</sub> )	+200℃	
	-Time (Min to Max) (ts)	60-180 secs.	
Average ramp up rate (Liquidus Temp (T <sub>L</sub> )to peak)		3℃/sec. Max	
T <sub>s(max)</sub> to T <sub>L</sub> - Ramp-up Rate		3℃/sec. Max	
Reflow	-Temperature(T∟)(Liquidus)	+217℃	
	-Temperature(t∟)	60-150 secs.	
Peak Temp (T <sub>p</sub> )		+260(+0/-5)°C	
Time within 5℃of actual Peak Temp (t <sub>p</sub> )		~10 secs.	
Ramp-down Rate		6℃/sec. Max	
Time 25℃ to Peak Temp (T <sub>P</sub> )		8 min. Max	
Do not exceed		+260℃	



### **PACKAGE BOX INFORMATION**



TEL: +86-513-83639777 -3 / 4- http://www.jjwdz.com



### **PACKAGING**

Part No.	Box Quantity (pcs)	Per Carton (pcs)
J20GxxxM2LC	100	10,000

#### MARKING CODE

Part Number	Marking Code		
J20GxxxM2LC	2R600		

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