



J20GxxxM3LK Gas Discharge Tube

Rev.1.1

FEATURE

- ✧ Eliminates small size design EIA 10.0×8.0mm.
- ✧ Current handling capability 20KA @ 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.
- ✧ Power supplies

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(kA)	Insulation resistance		C_o (1MHz)
					GΩ	DC(V)	
J20G091M3LK	90	±20%	≤700	20	≥1	50	≤1.5pF
J20G231M3LK	230	±20%	≤900	20	≥1	50	≤1.5pF
J20G471M3LK	470	±20%	≤1100	20	≥1	100	≤1.5pF

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

PART NUMBERING SYSTEM

J20G 091 M 3L K
(1) (2) (3) (4) (5)

(1) JieJie 20KA gas discharge tube

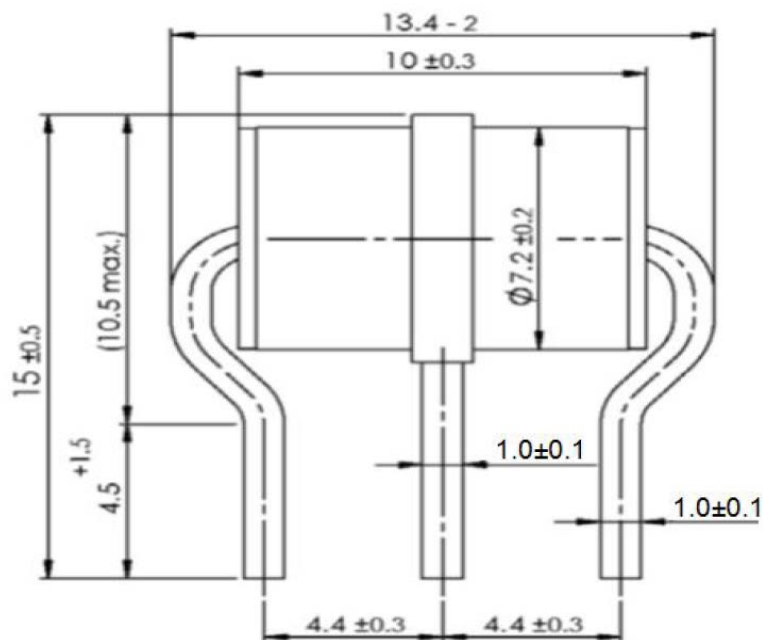
(2) DC breakdown voltage, e.g., 091=90×10¹=90V

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

(4) 3-electrod DIP

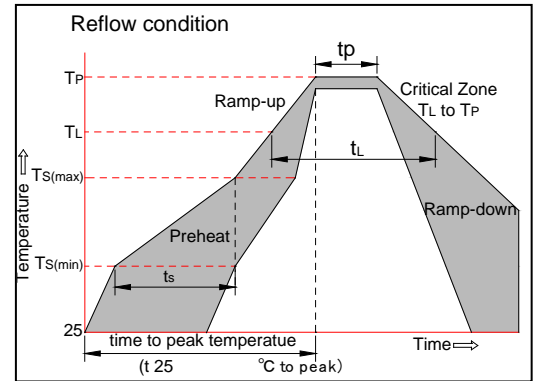
(5) Dimension in 10.0×7.2×7.2 (mm)

PRODUCT DIMENSIONS (unit: mm)

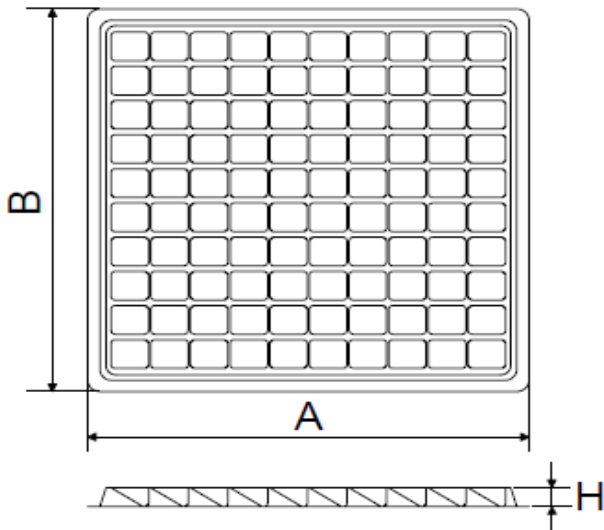


REFLOW PROFILE

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



Symbol	Dimension(mm)	
	Spec.	Tolerance
A	217.0	± 1.0
B	207.0	± 1.0
H	10.3	± 0.2

PACKAGING


Part No.	Box Quantity (pcs)	Per Carton (pcs)
J20GxxxM3LK	100	10000

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