



## J3GxxxM2LD Gas Discharge Tube

Rev.1.1

### FEATURE

- ✧ Eliminates small size design EIA 5.5×6.0mm.
- ✧ Current handling capability 3,000A@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<br>100V/s(V) | Tolerance of $V_s$ | Impulse spark-over voltage<br>1KV/μs(V) | Impulse discharge current<br>8/20μs(A) | Insulation resistance |       | $C_o$<br>(1MHz) |
|-------------|-----------------------------------|--------------------|---|--|-----------------------|-------|-----------------|
|             |                                   |                    |   |  | GΩ                    | DC(V) |                 |
| J3G302M2LD  | 3000                              | 2400-3600          | ≤4500                                   | 3000                                   | ≥1                    | 250   | ≤1.5pF          |
| J3G362M2LD  | 3600                              | 2800-4400          | ≤5500                                   | 3000                                   | ≥1                    | 250   | ≤1.5pF          |

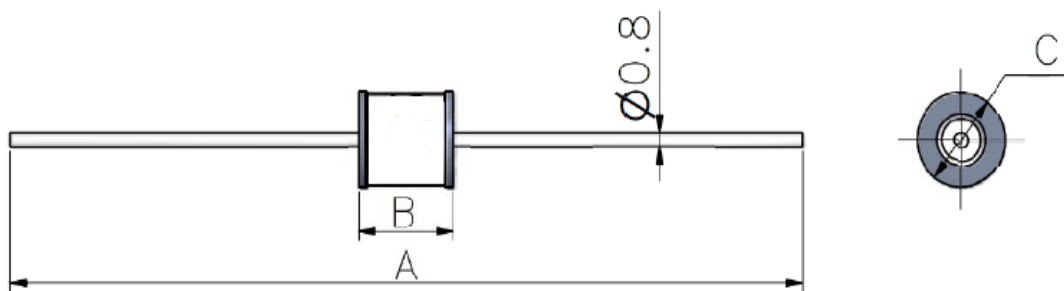
1. The parameters of all tested by ITU-T K12.
2. Total Impulse discharge current 3,000A@ 8/20μs by IEC 61000-4-5, 1 shots.
3. The capacitance is tested by 1MHz@DC=0.5V.
4. The V-T waveform of DCBV and IPBV mus lie between the shades.

**PART NUMBERING SYSTEM**

J3G 302 M 2L D  
 (1) (2) (3) (4) (5)

- (1)JieJie 3KA gas discharge tube
- (2)DC breakdown voltage,  $302=30 \times 10^2=3000V$
- (3)Tolerance is DC breakdown voltage, M=+-20%, N=+-30%
- (4)2-electrod DIP
- (5)Dimension in  $5.5 \times 6.0$  (mm)

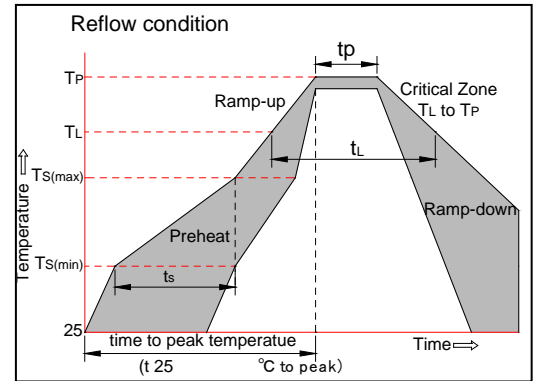
**PRODUCT DIMENSIONS (unit: mm)**



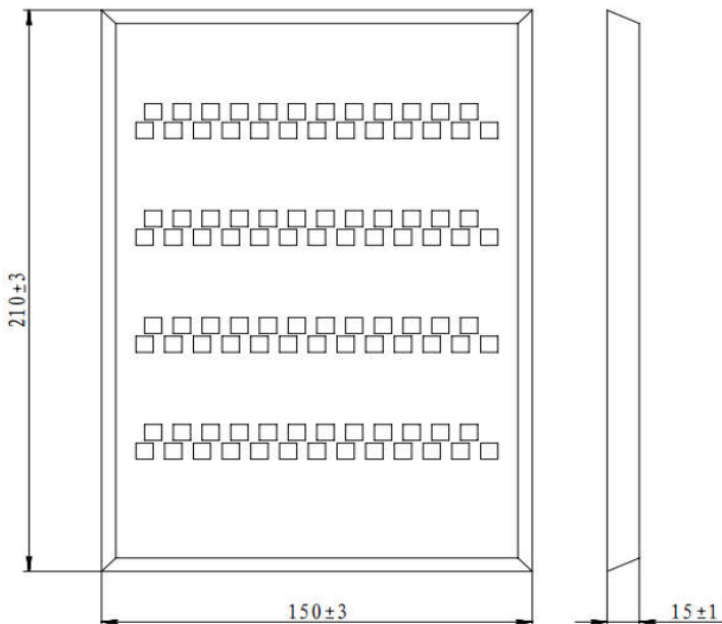
| REF | mm                 | inch                   |
|-----|--------------------|------------------------|
| A   | $62 \pm 2$         | $2.441 \pm 0.079$      |
| B   | $6 \pm 0.2$        | $0.236 \pm 0.008$      |
| C   | $\Phi 5.5 \pm 0.2$ | $\Phi 0.217 \pm 0.008$ |

REFLOW PROFILE

|   |                                   |   |
|---|-----------------------------------|---|
| Reflow Condition                                      |                                   | Pb-Free assembly<br>(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) |
|------------|--------------------|------------------|
| J3GxxxM2LD | 100                | 10,000           |

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