



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

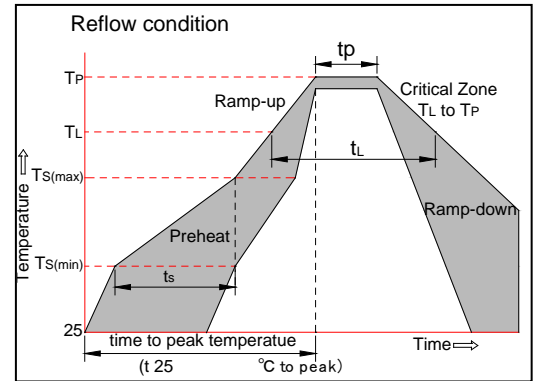
ELECTRICAL CHARACTERISTICS

| 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 |

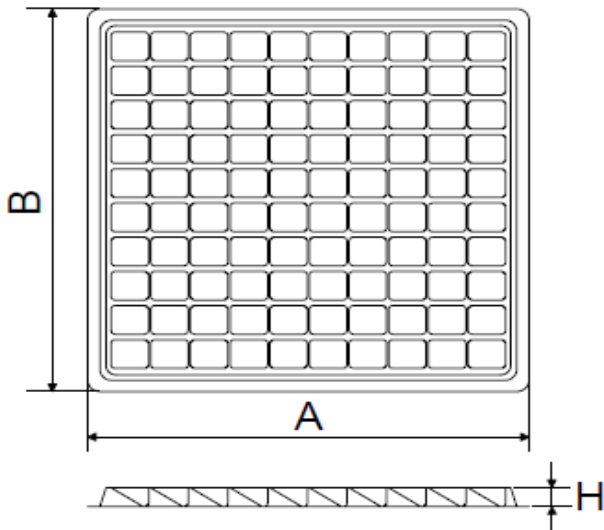
1. The parameters of all tested by ITU-T K12.
2. Total Impulse discharge current 20KA@ 8/20μs by IEC 61000-4-5, 10 shots.
3. The capacitance is tested by 1MHz@DC=0.5V.

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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