



**Electrical Characteristics**

| Type Number | DC Spark-Over Voltage | Min. Insulation Resistance |                | Max. Capacitance (1kHz-6Vmax. ) | Surge Current Capacity | Surge Life Test @8/20μs |
|-------------|-----------------------|----------------------------|----------------|---------------------------------|------------------------|-------------------------|
|             | Vs                    | Test Voltage               | I <sub>R</sub> | C <sub>j</sub>                  | 8/20μs                 |                         |
|             | V                     | V                          | MΩ             | pF                              | A                      |                         |
| RLM102-141N | 140(126~210)          | 50                         | 100            | 1                               | 1000                   | 100A 10 times           |
| RLM102-181N | 180±30%               | 50                         | 100            | 1                               | 1000                   | 100A 10 times           |
| RLM102-201M | 200±20%               | 100                        | 100            | 1                               | 1000                   | 100A 10 times           |
| RLM102-301M | 300±20%               | 100                        | 100            | 1                               | 1000                   | 100A 10 times           |
| RLM102-401M | 400±20%               | 250                        | 100            | 1                               | 1000                   | 100A 10 times           |
| RLM102-501M | 500±20%               | 250                        | 100            | 1                               | 1000                   | 100A 10 times           |

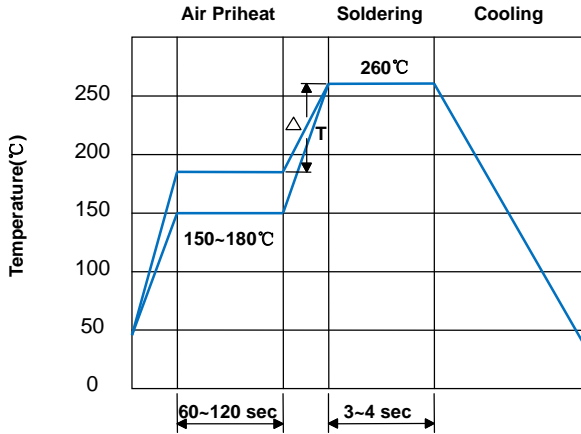
**Test Methods And Results**

| Test Item                       | Test Method  | Specification   |
|---------------------------------|--|---|
| DC Spark-over Voltage Vs(V)     | Add and measure the DC Voltage gradually Maxto get the discharge threshold voltage. The measuring current is 1mA/1 second max.   | It depends on each spec.  |
| Insulation Resistance           | Measure the insulation resistance of two end of leadwire under the specified DC voltage.   | 100MΩ min.  |
| Capacitance C <sub>j</sub> (pF) | Measure the Electrostatic Capacitance under the test condition of 1KHz,DC 6V(max).   | 1pF max.  |
| Life(JSE)                       | Apply a standard impulse voltage (8X20μsec)of 100A for 5 times with intervals of 30 sec., and then change the polarity of the surge and apply a impulse again. Then measure DC spark-over voltage, IR & Capacitance. | DC spark-over voltage<br>JSE:   Δ Vs/Vs   ≤30%  |
| Life(JSE)                       | Apply 10 KV voltage charged in 1500pF condenser and apply the current to the specimen,200 times at 10 seconds of intervals   | Insulation Resistance & Capacitance to meet the specified value. Appearance: No cracks or failures. |
| Cold Resistance                 | Measurement after -40℃ /1000 HRS & normal temperature/2 HRS.   | Features are conformed to rated spec.   |
| Heat Resistance                 | Measurement after 125℃ /1000 HRS & normal temperature/2 HRS.   |   |
| Humidity Resistance             | Measurement after humidity 90~95 ℃ (45 ℃ )/1000 HRS & normal temperature/2 HRS.  |   |
| Temperature Cycle               | 10 times repetition of cycle -40 ℃ /30min →normal, temp/2 min →125℃ /30min, measurement after normal temp/2 HRS.   |   |
| Pull Strength                   | Apply 0.5kg load for 10sec.  | Lead shall not pull out to snap.  |
| Flexural Strength               | Bend lead wire at the point of 2mm from body under 0.25 load and back to its original point. Repeat 1 time.  |   |



**Recommended Soldering Conditions**

**Flow Soldering Conditions**



**Hand Soldering**

Solder iron temperature:  $350 \pm 5^\circ\text{C}$   
Heating time: 3 seconds max.

**General attention to soldering**

- 1.High soldering temperatures and long soldering times can cause leaching of the termination, decrease in adherence strength, and the change of characteristic may occur.
- 2.For soldering, please refer to the soldering curves above. However, please keep exposures to temperatures exceeding  $200^\circ\text{C}$  to fewer than 50 seconds.
- 3.Please use a mild flux (containing less than 0.2wt% Cl). Also, if the flux is water soluble, be sure to wash thoroughly to remove any residue from the underside of components that could affect resistance.

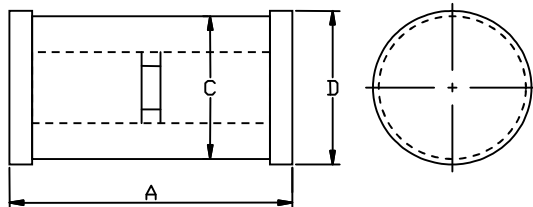
- 1) Time shown in the above figures is measured from the point when chip surface reaches temperature.
- 2) Temperature difference in high temperature part should be within  $110^\circ\text{C}$
- 3) After soldering, do not force cool, allow the parts to cool gradually.

**Cleaning**

When using ultrasonic cleaning, the board may resonate if the output power is too high. Since this vibration can cause cracking or a decrease in the adherence of the termination, we recommend that you use the conditions below.

Frequency: 40kHz max.  
Output power: 20W/liter  
Cleaning time: 5 minutes max.

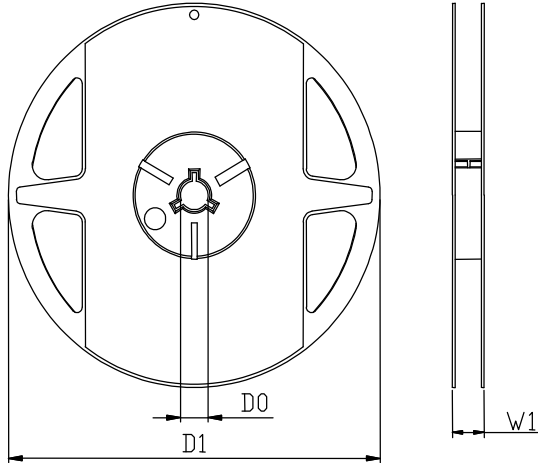
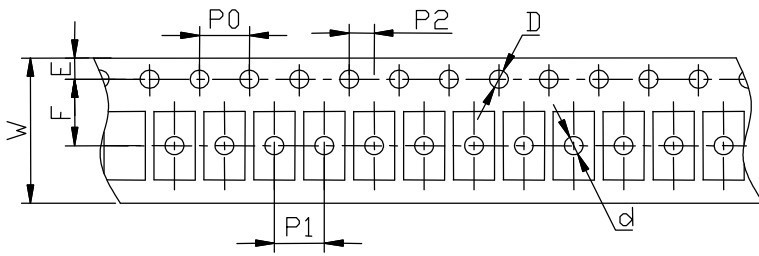
**Dimensions**



| DIM | Millimeters        | Inches           |
|-----|--------------------|------------------|
| A   | $5.0 \pm 0.5$      | $0.197 \pm 0.02$ |
| C   | $\Phi 2.6 \pm 0.5$ | $0.102 \pm 0.02$ |
| D   | $\Phi 2.7 \pm 0.5$ | $0.106 \pm 0.02$ |



**Taping and Reel Specifications**



| Symbol                        | Millimeters | Inches      |
|-------------------------------|-------------|-------------|
| W                             | 12.0±0.2    | 0.472±0.008 |
| P0                            | 4.0±0.1     | 0.157±0.004 |
| P1                            | 4.0±0.1     | 0.157±0.004 |
| P2                            | 2.0±0.1     | 0.079±0.004 |
| D                             | Φ1.5±0.1    | 0.059±0.004 |
| d                             | Φ1.5±0.1    | 0.059±0.004 |
| E                             | 1.75±0.1    | 0.069±0.004 |
| F                             | 5.5±0.05    | 0.217±0.002 |
| D1                            | 178.0       | 7.007       |
| D0                            | 13.0        | 0.512       |
| W1                            | 15.0        | 0.591       |
| Quantity: 1500PCS / inner box |             |             |



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