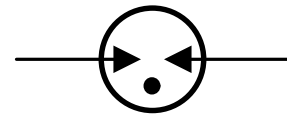


## Features

- Stable breakdown voltage
- High insulation resistance
- High current rating
- Low capacitance ( $\leq 0.8\text{pF}$ )
- Stable performance over life
- Large absorbing transient current capability
- Fast response time
- RoHS compliant
- Standard Size: 4.2mm\*4.0mm
- Meets MSL level 1, per J-STD-020
- Storage and operating temperature:  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$

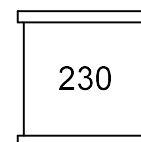
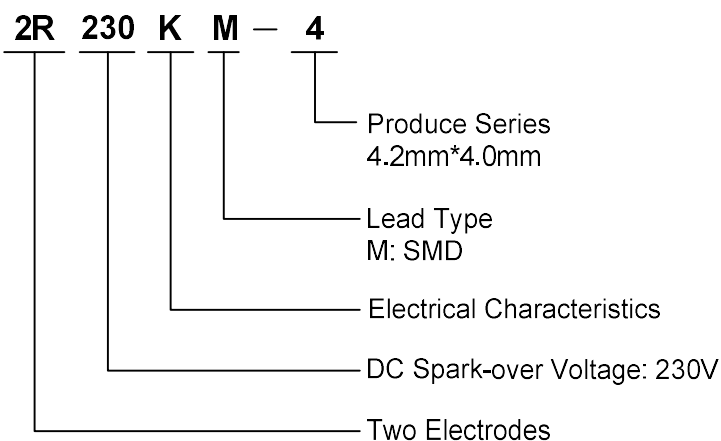
GDT Graphical Symbol



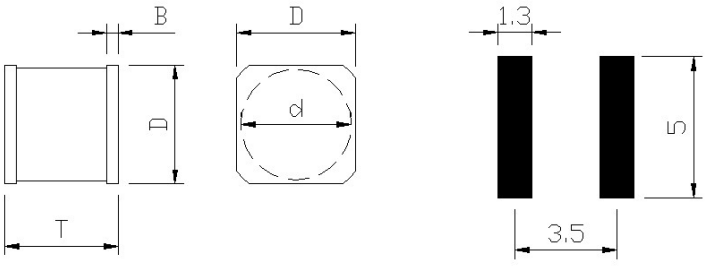
## Applications

- Repeaters, Modems
- Subscriber protection
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment
- Branch exchange
- Subscriber protection
- Alarm system
- Tuner
- Antenna protection

## Part Number Code and Marking



**Dimensions**

|  | Symbol | Dimensions(mm) |
|---|--------|----------------|
|   | D      | 4.2±0.3        |
|   | T      | 4.0±0.2        |
|   | B      | 0.4±0.1        |
|   | d      | 3.9±0.1        |

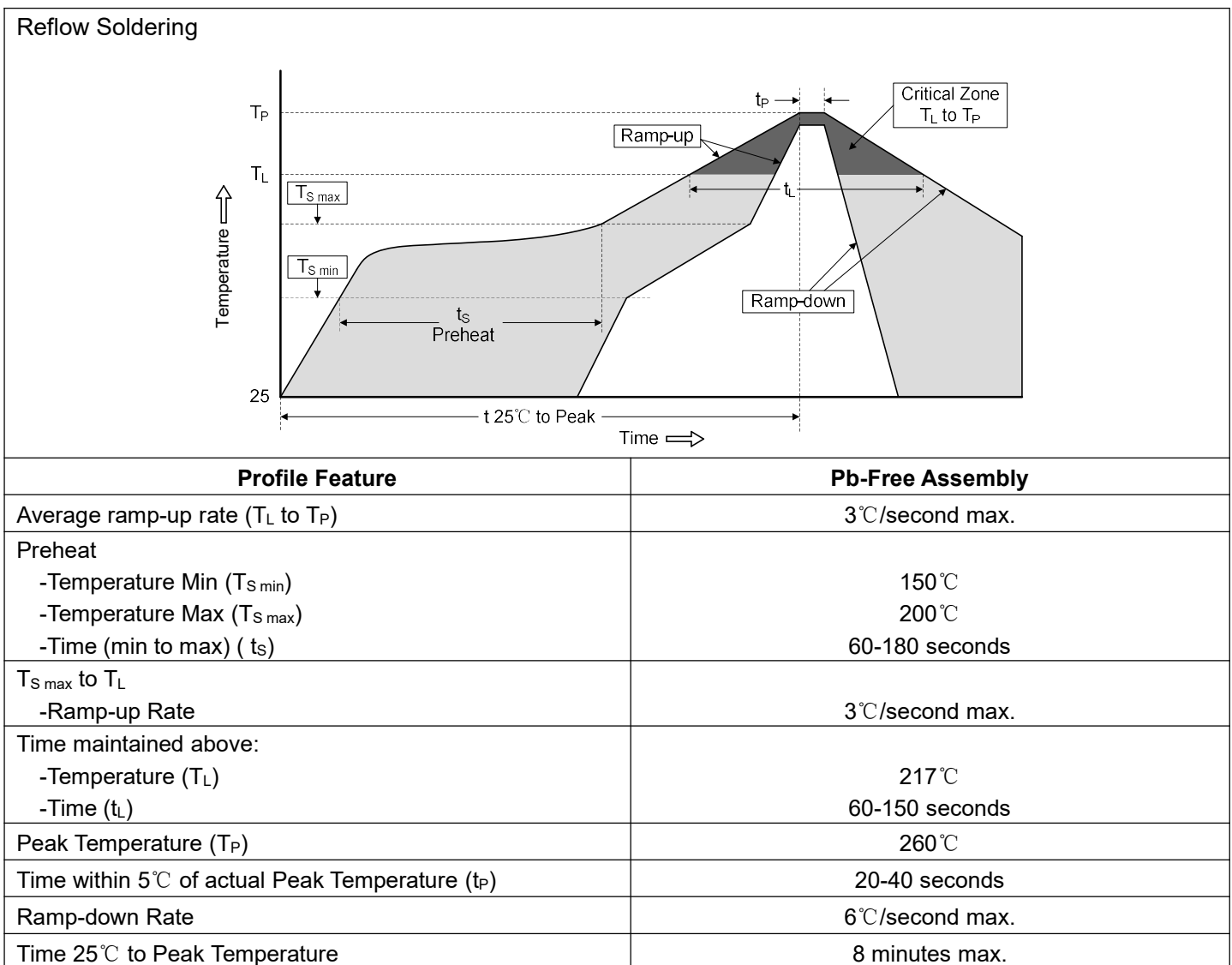
**Electrical Characteristics (T<sub>A</sub>=25°C)**

| Part Number | Marking | DC Spark-over Voltage | Maximum Impulse Spark-over Voltage | Nominal Impulse Discharge Current | Alternating Discharge Current | Impulse Life    | Minimum Insulation Resistance |    | Maximum Capacitance |
|-------------|---------|-----------------------|------------------------------------|-----------------------------------|-------------------------------|-----------------|-------------------------------|----|---------------------|
|             |         | 100V/s                | 1000V/μs                           | 8/20μs, 10 times                  | 50Hz, 1sec                    | 10/1000μs, 100A | Test Voltage                  | GΩ | 1MHz                |
| 2R075KM-4   | 075     | 75V±20%               | 700V                               | 3KA                               | 3A                            | 300 times       | 25VDC                         | 1  | 0.8pF               |
| 2R090KM-4   | 090     | 90V±20%               | 700V                               | 3KA                               | 3A                            | 300 times       | 50VDC                         | 1  | 0.8pF               |
| 2R230KM-4   | 230     | 230V±20%              | 700V                               | 3KA                               | 3A                            | 300 times       | 100VDC                        | 1  | 0.8pF               |
| 2R250KM-4   | 250     | 250V±20%              | 700V                               | 3KA                               | 3A                            | 300 times       | 100VDC                        | 1  | 0.8pF               |
| 2R300KM-4   | 300     | 300V±20%              | 800V                               | 3KA                               | 3A                            | 300 times       | 100VDC                        | 1  | 0.8pF               |
| 2R350KM-4   | 350     | 350V±20%              | 850V                               | 3KA                               | 3A                            | 300 times       | 100VDC                        | 1  | 0.8pF               |
| 2R400KM-4   | 400     | 400V±20%              | 900V                               | 3KA                               | 3A                            | 300 times       | 100VDC                        | 1  | 0.8pF               |
| 2R470KM-4   | 470     | 470V±20%              | 1000V                              | 3KA                               | 3A                            | 300 times       | 250VDC                        | 1  | 0.8pF               |
| 2R600KM-4   | 600     | 600V±20%              | 1200V                              | 3KA                               | 3A                            | 300 times       | 250VDC                        | 1  | 0.8pF               |
| 2R800KM-4   | 800     | 800V±20%              | 1400V                              | 3KA                               | 3A                            | 300 times       | 250VDC                        | 1  | 0.8pF               |

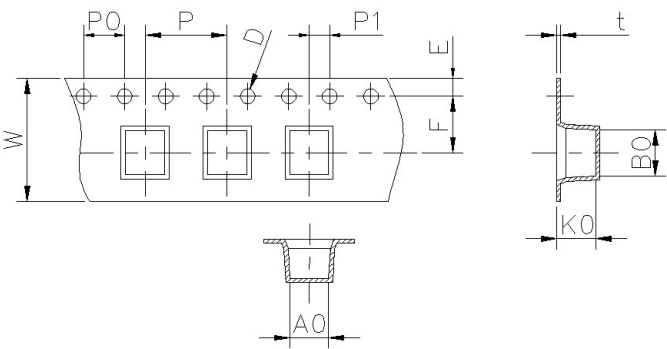
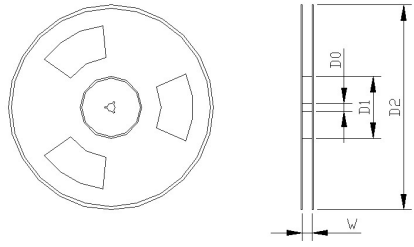
### Test Methods and Results

| Items                              | Test Method   | Standard                    |
|------------------------------------|---|-----------------------------|
| DC Spark-over Voltage              | measured with voltage ramp $dv/dt=100V/s$ .   | To meet the specified value |
| Maximum Impulse Spark-over Voltage | measured with voltage ramp $dv/dt=1000V/\mu s$ .  |                             |
| Impulse Discharge Current          | applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time, |                             |
| Alternating Discharge Current      | Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min.            |                             |
| Insulation Resistance              | measured between two electrodes.  |                             |
| Capacitance                        | measured between two electrodes. Test frequency: 1MHz   |                             |

### Soldering Parameters



Packaging Specification

| Tape  | Symbol  | Dimension (mm) |           |
|---|---|----------------|-----------|
|  | W   | 12.0±0.2       |           |
|   | P0  | 4.0±0.1        |           |
|   | P1  | 8.0±0.2        |           |
|   | P2  | 2.0±0.1        |           |
|   | D0  | 1.55±0.1       |           |
|   | E   | 1.75±0.1       |           |
|   | F   | 5.5±0.1        |           |
|   | A0  | 4.5±0.1        |           |
|   | K0  | 4.5±0.1        |           |
|   | B0  | 4.3±0.1        |           |
|   | t0  | 0.35±0.1       |           |
|   |  | D0             | 13.3±1.0  |
|   |   | D1             | 100.0±2.0 |
| D2  |   | 330.0±2.0      |           |
| W   |   | 12.5±0.5       |           |
| Quantity: 1500pcs   |   |                |           |