

# Gas Discharge Tube: GF6 Series

## SMD 2-Electrode $\Phi 6.2 \times T4.2$ mm Type



### ■ Features

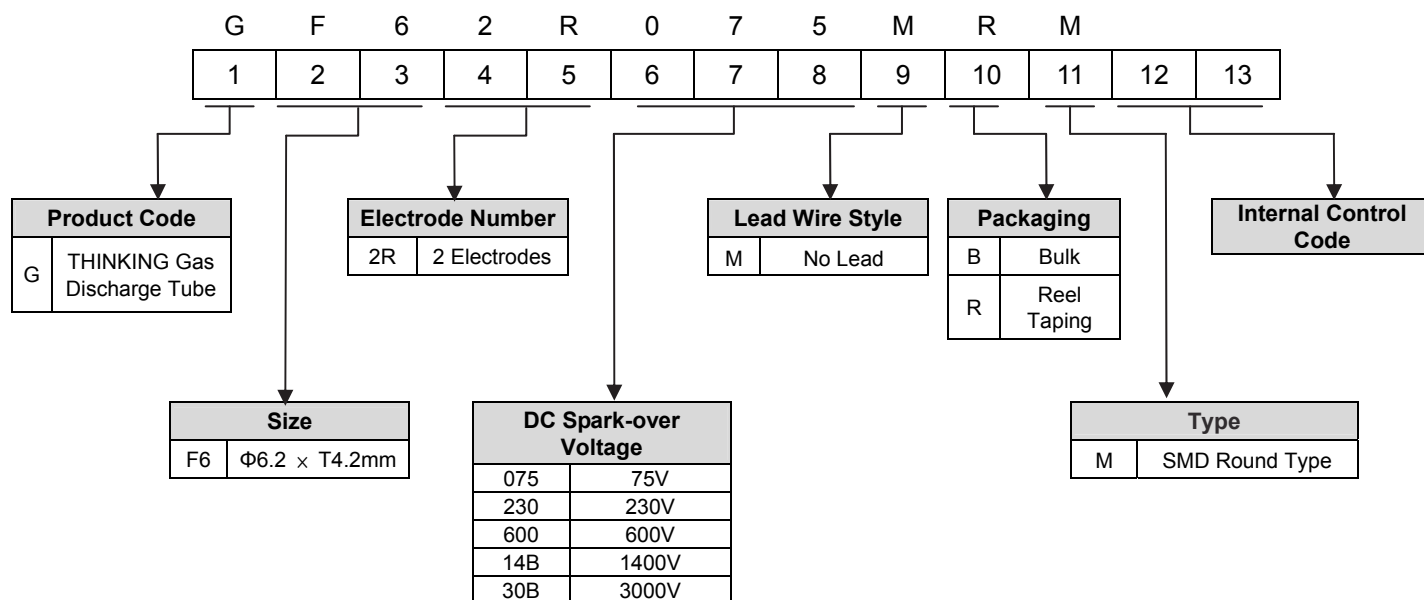
1. RoHS & HF compliant
2. SMD type series
3. DC spark-over voltage: 75~3000V
4. Low capacitance
5. Agency recognition :UL / cUL
6. Operating temperature :  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$   
Storage temperature:  $-40^{\circ}\text{C} \sim +115^{\circ}\text{C}$



### ■ Recommended Applications

1. Cable Modem
2. xDSL
3. Set-Top Box
4. TV sets
5. Power supplier
6. Consumer electronics

### ■ Part Number Code



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### ■ Characteristics

| Part No.    | DC Spark-over Voltage | Max. Impulse Breakdown Voltage |              | Max. Impulse Discharge Current (8/20 $\mu$ s) |          | Impulse Life (10/1000 $\mu$ s) | Normal Alternating Discharge Current | DC Holdover Voltage | Minimum Insulation Resistance | Maximum Capacitance (1MHz) | Safety Approvals |         |
|-------------|-----------------------|--------------------------------|--------------|-----------------------------------------------|----------|--------------------------------|--------------------------------------|---------------------|-------------------------------|----------------------------|------------------|---------|
|             | 100V/S                | 100V/ $\mu$ s                  | 1KV/ $\mu$ s | 1 time                                        | 10 times | 100A                           | 50Hz, 1Sec                           | <150ms              |                               |                            |                  |         |
|             | (V)                   | (V)                            | (V)          | (KA)                                          |          | (Times)                        | (A)                                  | (V)                 | (G $\Omega$ )                 | (pF)                       | UL 1449 /cUL     | UL 497B |
| GF62R075MRM | 75 $\pm$ 20%          | 600                            | 700          | 8                                             | 5        | 500                            | 5                                    | 52                  | 1                             | 0.8                        |                  | √       |
| GF62R090MRM | 90 $\pm$ 20%          | 600                            | 700          |                                               |          |                                |                                      | 52                  |                               |                            |                  | √       |
| GF62R145MRM | 145 $\pm$ 20%         | 500                            | 700          |                                               |          |                                |                                      | 52                  |                               |                            |                  | √       |
| GF62R230MRM | 230 $\pm$ 20%         | 500                            | 600          |                                               |          |                                |                                      | 80                  |                               |                            |                  | √       |
| GF62R250MRM | 250 $\pm$ 20%         | 500                            | 600          |                                               |          |                                |                                      | 135                 |                               |                            |                  | √       |
| GF62R300MRM | 300 $\pm$ 20%         | 550                            | 650          |                                               |          |                                |                                      | 150                 |                               |                            |                  | √       |
| GF62R350MRM | 350 $\pm$ 20%         | 600                            | 700          |                                               |          |                                |                                      | 150                 |                               |                            |                  | √       |
| GF62R400MRM | 400 $\pm$ 20%         | 650                            | 750          |                                               |          |                                |                                      | 150                 |                               |                            |                  | √       |
| GF62R470MRM | 470 $\pm$ 20%         | 750                            | 850          |                                               |          |                                |                                      | 150                 |                               |                            |                  | √       |
| GF62R600MRM | 600 $\pm$ 20%         | 900                            | 1000         |                                               |          |                                |                                      | 150                 |                               |                            |                  | √       |
| GF62R800MRM | 800 $\pm$ 20%         | 1000                           | 1100         | 5                                             | 3        | 300                            | 3                                    | 150                 |                               |                            | √                | √       |
| GF62R10BMRM | 1000 $\pm$ 20%        | 1500                           | 1600         |                                               |          |                                |                                      | 150                 |                               |                            | √                |         |
| GF62R12BMRM | 1200 $\pm$ 20%        | 1700                           | 1800         |                                               |          |                                |                                      | 150                 |                               |                            | √                |         |
| GF62R18BMRM | 1800 $\pm$ 20%        | 2500                           | 2600         |                                               |          |                                |                                      | 150                 |                               |                            | √                |         |
| GF62R20BMRM | 2000 $\pm$ 20%        | 2700                           | 2800         |                                               |          |                                |                                      | 150                 |                               |                            | √                |         |
| GF62R25BMRM | 2500 $\pm$ 20%        | 3100                           | 3200         |                                               |          |                                |                                      | 150                 |                               |                            | √                |         |
| GF62R27BMRM | 2700 $\pm$ 20%        | 3300                           | 3400         |                                               |          |                                |                                      | 150                 |                               |                            | √                |         |
| GF62R30BMRM | 3000 $\pm$ 20%        | 3600                           | 3700         |                                               |          |                                |                                      | 150                 |                               |                            | √                |         |

Note 1: UL 497B File No: E245070, UL 1449 3rd File No: E314979

Note 2: Insulation resistance test conditions:

| DC Spark-over Voltage | DC Measuring Voltage |
|-----------------------|----------------------|
| 70-90V                | 50V                  |
| 120-400V              | 100V                 |
| 470-800V              | 250V                 |
| 1000-2000V            | 500V                 |
| 2500-3000V            | 1000V                |

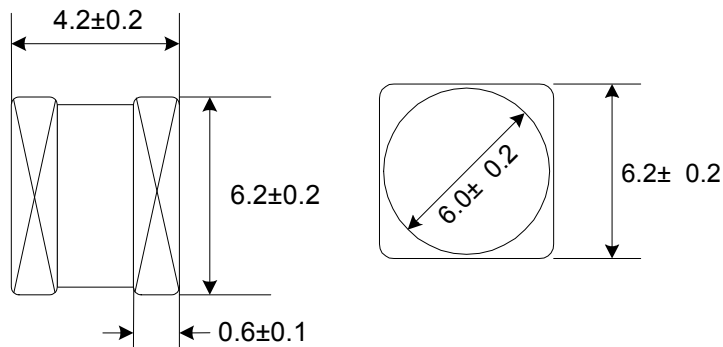
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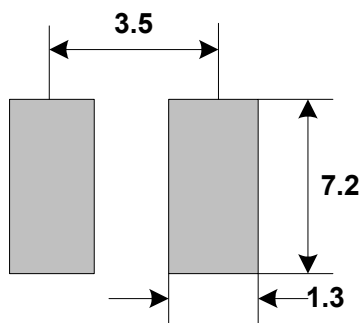
### ■ Dimension

(Unit: mm)

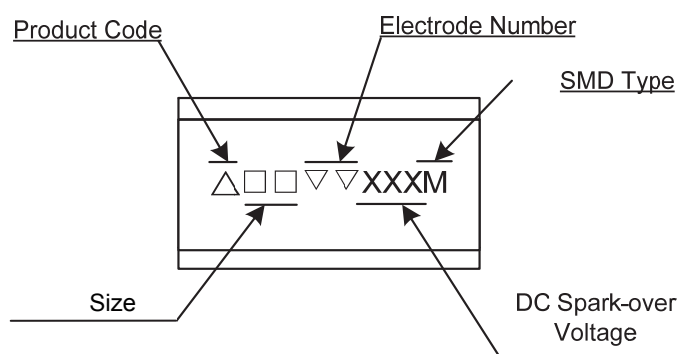


### ■ Recommended Pad Size

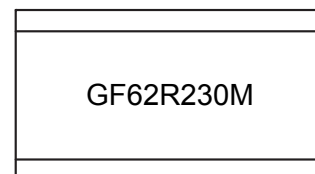
(Unit: mm)



### ■ Marking



Example



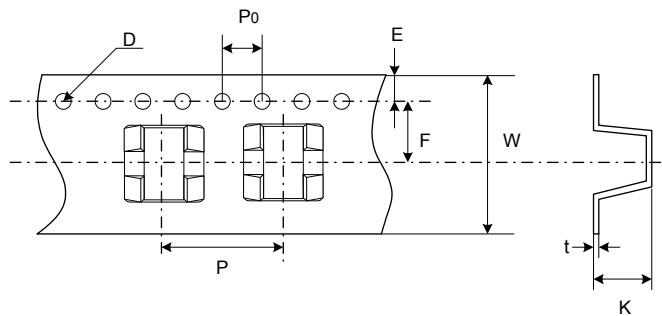
# Gas Discharge Tube: GF6 Series

## SMD 2-Electrode $\Phi 6.2$ x T4.2 mm Type



### ■ Packaging

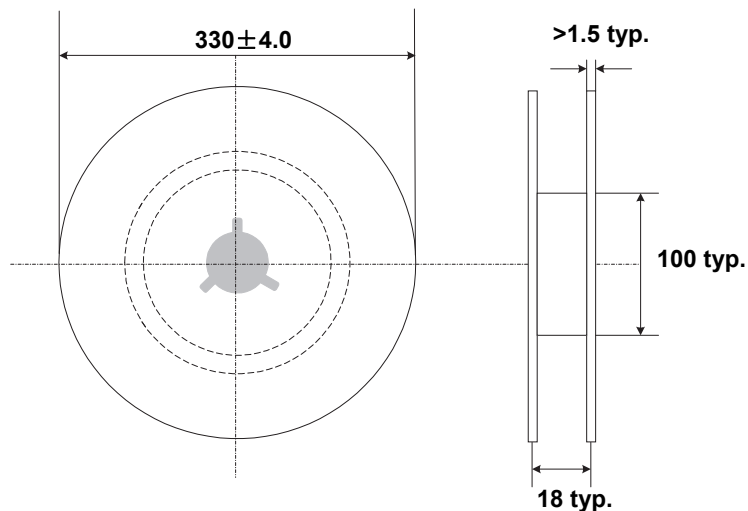
#### ● Taping



Quantity: 800pcs per reel (13'')

Unit: mm

| ITEM      | P         | P0        | W         | F         | E         | D           | K         | t          |
|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|------------|
| Spec.     | 12.0      | 4.0       | 16.0      | 7.5       | 1.75      | $\Phi 1.55$ | 6.7       | 0.5        |
| Tolerance | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.3$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.05$  | $\pm 0.1$ | $\pm 0.05$ |



### ■ Warehouse Storage Conditions of Products

- Storage Conditions:
  1. Storage Temperature:  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
  2. Relative Humidity:  $\leq 75\% \text{RH}$
  3. Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year