

# Gas Discharge Tube: G12D12 Series



## 2-Electrode $\Phi 11.8 \times T12$ mm Type

### ■ Features

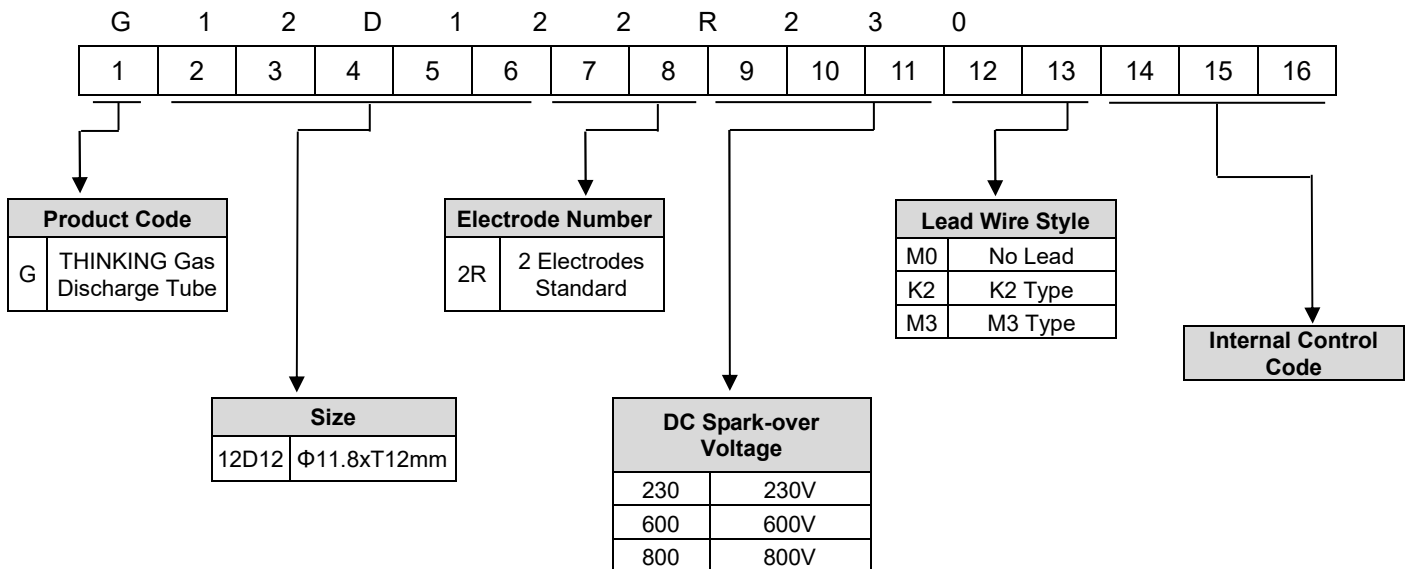
1. RoHS & HF compliant
2. Rugged ceramic-metal construction
3. DC spark-over voltage: 230~800V
4. Follow current at 50/60Hz: 100A ( For 470~800V)
5. Max continuous operating voltage at 50/60Hz: 255V ( For 470~800V)
6. Agency recognition: UL
7. Operating temperature:  $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$   
Storage temperature:  $-40^{\circ}\text{C} \sim +115^{\circ}\text{C}$



### ■ Recommended Applications

1. Power system
2. Industrial equipment
3. SPD module

### ■ 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	Front-of-wave sparkover voltage	Follow Current	Max Continuous Operating Voltage	Minimum Insulation Resistance	Maximum Breakdown Time	Safety Approvals
	100V/S	1KV/ $\mu$ s	1 time	10 times	300A	50Hz, 1Sec	1.2/50 $\mu$ s 6KV	50/60Hz	50/60Hz	(G $\Omega$ )	(ns)	UL 1449
	(V)	(V)	(KA)		(times)	(A)	(V)	(A)	(V)			
G12D122R230□□	230 $\pm$ 20%	700	40	30	300	40	1100	/	/	1	100	√
G12D122R250□□	250 $\pm$ 20%	700					1100	/	/			√
G12D122R300□□	300 $\pm$ 20%	800					1100	/	/			√
G12D122R350□□	350 $\pm$ 20%	800					1100	/	/			√
G12D122R420□□	420 $\pm$ 20%	800					1200	/	/			√
G12D122R470□□	470 $\pm$ 20%	1000					1300	100	220			√
G12D122R500□□	500 $\pm$ 20%	1000					1300	100	255			√
G12D122R600□□	600 $\pm$ 20%	1200					1400	100	255			√
G12D122R700□□	700 $\pm$ 20%	1300					1500	100	255			√
G12D122R800□□	800 $\pm$ 20%	1400					1500	100	255			√

Note 1: The □□ is style of lead wire.

Note 2: UL 1449 4th File No: E314979.

Note 3: Insulation resistance test conditions:

DC Spark-over Voltage	DC Measuring Voltage
70-150V	50V
151-400V	100V
401-800V	250V

### Dimension

(Unit: mm)

Figure 1

M0:No Lead

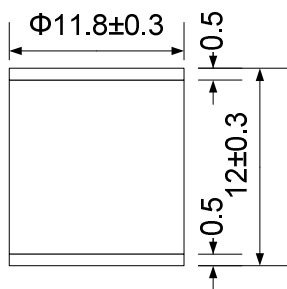


Figure 2

K2:K2 Type

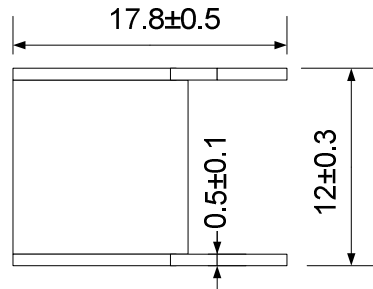
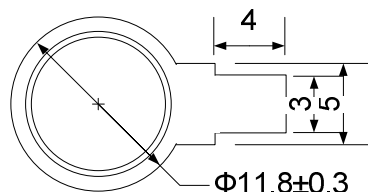
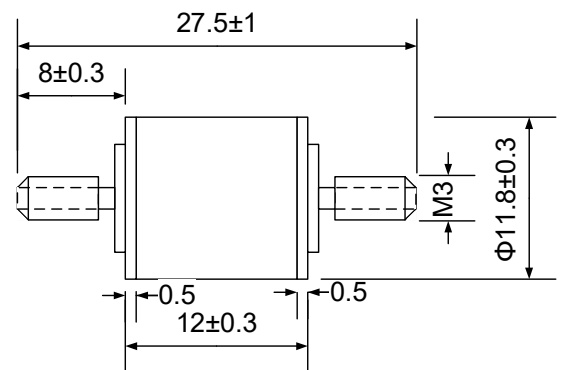


Figure 3

M3:M3 Type



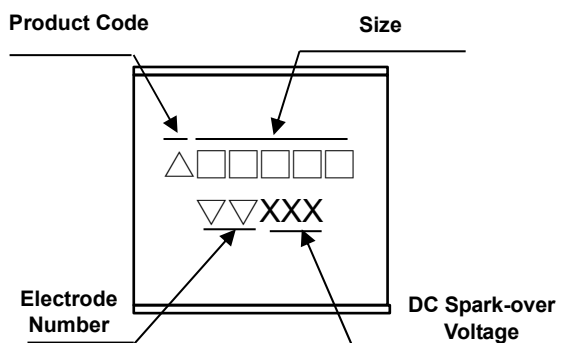
Note : The dimensional tolerance of figure 3.4.5. is  $\pm 0.2$ mm.

# Gas Discharge Tube: G12D12 Series

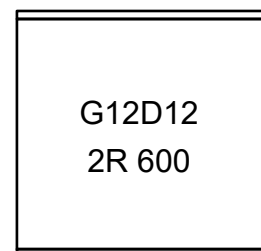


## 2-Electrode $\Phi 11.8 \times T12$ mm Type

### ■ Marking



Example:



### ■ Packaging

- Bulk

### ■ 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