Gas Discharge Tube: GF6 Series

SMD 2-Electrode Φ6.2*T4.2 mm Type

■ Features

1. RoHS compliant
2. SMD type series
3. DC spark-over voltage: 75~3000V
4. Low capacitance
5. Agency recognition :UL/cUL



■ Recommended Applications

1. Data transmission lines
2. Communication lnes
3. CATV system
4. Power distribution system
5. Power supplier
6. Test equipment
7. Instrumentation circuits

■ Part Number Code

G	F	6	2	R	0	7	5	N	R	M		
1	2	3	4	5	6	7	8	9	10	11	12	13

Product Code

G	THINKING Gas Discharge Tube

Electrode Number

2R	2 Electrodes

Lead Wire Style

N	No Lead

Packaging

B	Bulk
T	Ammo Taping
R	Reel Taping

Internal Control Code

Type Series (size)

F6	Φ6.0*T4.2

DC Spark-over Voltage

070	70V
230	230V
600	600V
14B	1400V
25B	2500V

Product Type

M	SMD Round Type

All specification are subject to change without notice.

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■ Characteristics

Type	DC Breakdown Voltage	Max. Impulse Breakdown Voltage		Impulse Discharge Current (8/20μs)		Impulse Life (10/1000μs)	Normal Alternating Discharge Current		DC Holdover voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)	Safety approvals	
	(100V/S)	100V/μs	1KV/μs	1 time	10 times	100A	50Hz, 1Sec	Single 9 Cycles	<150ms				
	(V)	(V)	(V)	(KA)		Times	(A)		(V)	(GΩ)	(pF)	UL 1449/ cUL	UL 497B
GF62R075NRM	75±20%	600	700	8	5	500	5	15	52	1	0.8		√
GF62R090NRM	90±20%	600	700						52				√
GF62R145NRM	145±20%	500	700						52				√
GF62R230NRM	230±20%	450	550						80				√
GF62R250NRM	250±20%	450	550						135				√
GF62R300NRM	300±20%	500	600						135				√
GF62R350NRM	350±20%	500	600						135				√
GF62R400NRM	400±20%	600	700						135				√
GF62R470NRM	470±20%	700	800						135				√
GF62R600NRM	600±20%	900	1000						150				√
GF62R800NRM	800±20%	1000	1100						150				√
GF62R12BNRM	1200±20%	1700	1800	5	3	300	3	10	150			√	
GF62R18BNRM	1800±20%	2500	2600						150			√	
GF62R20BNRM	2000±20%	2700	2800						150			√	
GF62R25BNRM	2500±20%	3100	3200						150			√	
GF62R27BNRM	2700±20%	3300	3400						150			√	
GF62R30BNRM	3000±20%	3600	3700						150			√	

Note1: UL / 497B→ File No. E245070, UL / 1449 3rd→ File No.E314979

Note 2 Insulation resistance test conditions:

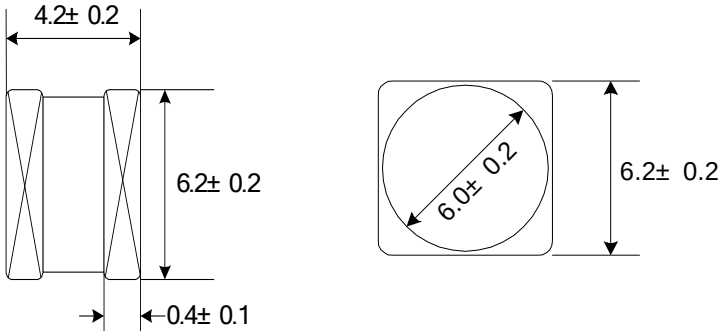
DC Breakdown Voltage	DC Measuring Voltage
70-90V	50V
120-400V	100V
470-800V	250V
1000-2000V	500V
2500-3000V	1000V

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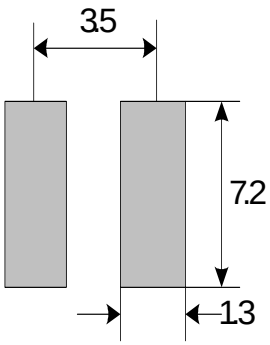
■ Dimension

(unit:mm)

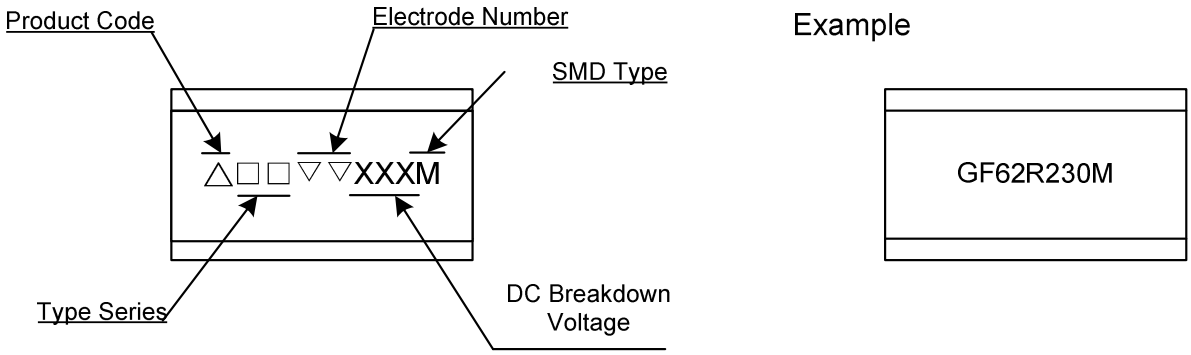


■ Recommended Pad Size

(unit: mm)



■ Marking

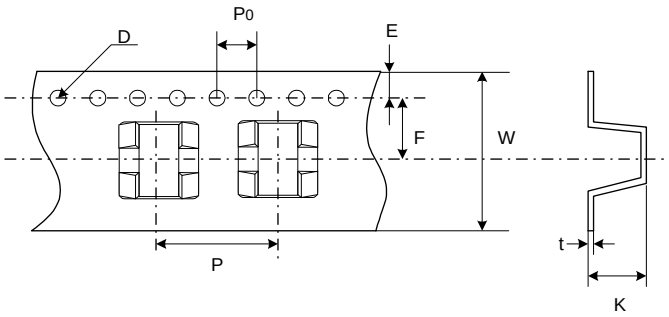


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■ Packaging

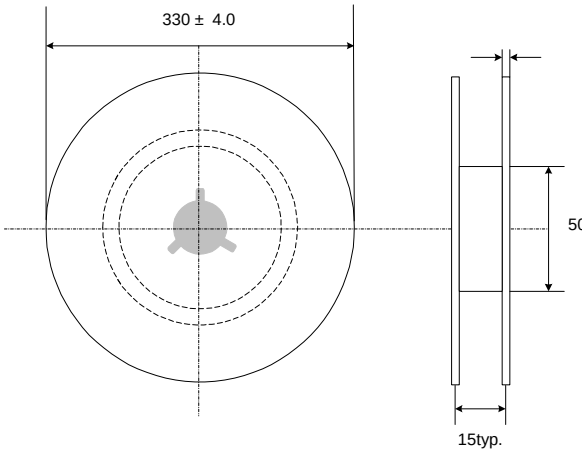
● Taping



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	Φ1.55	6.4	0.5
Tol.	±0.1	±0.1	±0.3	±0.1	±0.1	±0.05	±0.1	±0.05



■ Storage Conditions of GDT

- Storage conditions：

  1. Storage Temperature: -10℃ ~ +40℃.
  2. Relative humidity: ≦75%RH.
  3. Gas discharge tube must be kept away from sunlight and stored in a non-corrosive atmosphere.

- Shelf life: 1 year