Gas Discharge Tube：GF4 Series

SMD 2-Electrode Φ4*4.2 mm Type

■ Features

1. RoHS compliant
2. SMD type series
3. DC spark-over voltage：75~600V
4. Low capacitance
5. Agency recognition :UL

■ Recommended Applications

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

■ Part Number Code

G	F	4	2	R	0	7	5	N	B	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)	
F4	Φ4.0*T4.2

DC Spark-over Voltage	
070	70V
230	230V
600	600V
14B	1400V
25B	2500V

Product Type	
M	SMD Round Type

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■ Characteristics

Type	DC Breakdown Voltage	Maximum Impulse Breakdown Voltage		Maximum 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 497B
GF42R075NRM	75±20%	700	800	5	3	300	3	6	52	1	0.5	√
GF42R090NRM	90±20%	700	800						52			√
GF42R145NRM	145±20%	700	800						52			√
GF42R230NRM	230±20%	600	700						80			√
GF42R250NRM	250±20%	600	700						80			√
GF42R300NRM	300±20%	600	700						150			√
GF42R350NRM	350±20%	650	800						150			√
GF42R400NRM	400±20%	700	800						150			√
GF42R470NRM	470±20%	800	900						150			√
GF42R600NRM	600±20%	900	1000						150			√

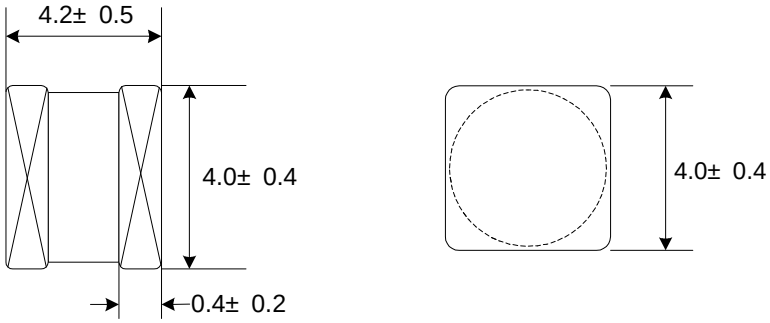
Note1: UL / 497B→ File No. E245070

Note 2 Insulation resistance test condition:

DC Breakdown Voltage	DC Measuring Voltage
70-90V	50V
120-400V	100V
470-600V	250V

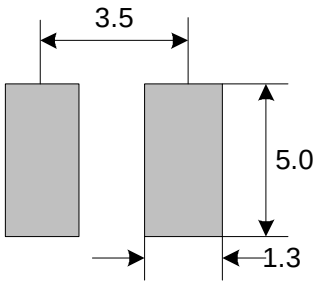
■ Dimension

(unit:mm)



■ Recommended Pad Size

(unit: mm)



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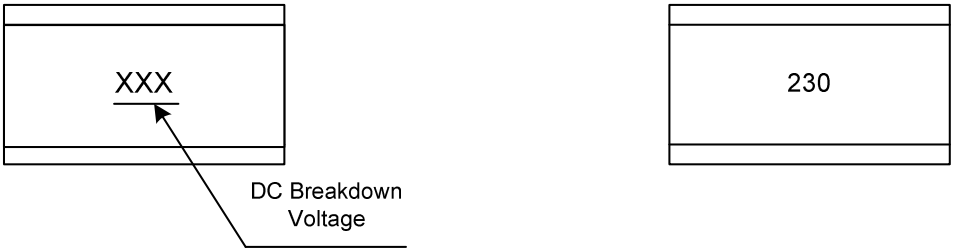
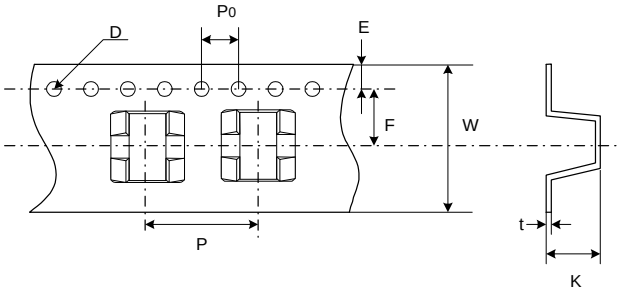
■ Marking

Example



■ Packaging

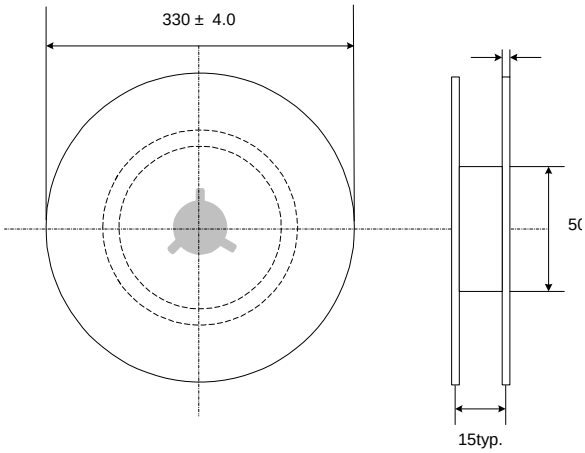
● Taping



Quantity： 900pcs 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	4.6	0.5
Tol.	±0.1	±0.1	±0.3	±0.1	±0.1	±0.05	±0.1	±0.05



■ Storage Conditions of GDT

(I) 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.

(II) Shelf life：1 year.