



# Gas Discharge Tubes

**SMD3216 Series**

## Gas Discharge Tubes - SMD3216 Series

GDT introduction: Gas discharge tubes (GDT) use noble gasses enclosed in ceramic tubes to provide an alternate circuit path for voltage spikes. The ceramic envelope and with nickel connectors allow for high loads and Ruilon offers products that function at 20KA, 40KA, 50KA, 60KA, 100KA & 150KA. The breakdown voltages of the devices have a wide range (up to 20% tolerance). Major applications are high frequency telecommunication lines, stations, security systems, HID and high quality Surge Protection Devices (SPD).



### Features

1. RoHS & HF compliant
  2. SMD Structure
  3. DC Spark-over voltage: 75-600V
  4. Low Capacitance
  5. Agency Recognition : UL
  6. Operating temperature : -30°C ~ +85°C
- Storage temperature: -40°C ~ +115°C

### Recommended Applications

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

### Part Number Code

S	M	D	3	2	1	6	-	0	7	5	N
↓			↓				↓			↓	
surface mount			3.2*1.6*1.6MM				voltage			±30%	

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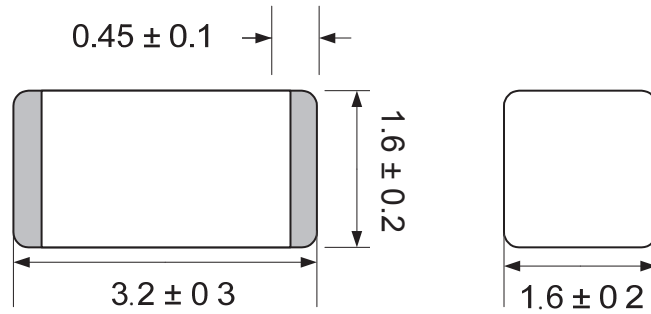
### Electrical Characteristics

Part No.	DC Spark-over Voltage	Maximum Impulse Breakdown Voltage	Max. Impulse Discharge Current (8/20 $\mu$ s)	Impulse Life	Normal Alternating Discharge Current	DC Holdover Voltage
	100V/S	8/20 $\mu$ s	50Hz, 1Sec	8/20 $\mu$ s,50A	@DC 100V	1MHz
	(V)	(A)	(A)	Times	(M $\Omega$ )	(pF)
SMD3216-075N	75 (55~95)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-090N	90 (63~117)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-120N	120 (84~156)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-150N	150 (105~195)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-200N	200 (140~260)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-230N	230 (161~299)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-300N	300 (210~390)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-350N	350 (245~455)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-400N	400 (280~520)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-420N	420 (294~546)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-470N	470 (329~611)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-500N	500 (350~650)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1
SMD3216-600N	600 (420~780)	500A (Positive/Negative5 Times)	0.5A 10 Times	300	Min. 100	1

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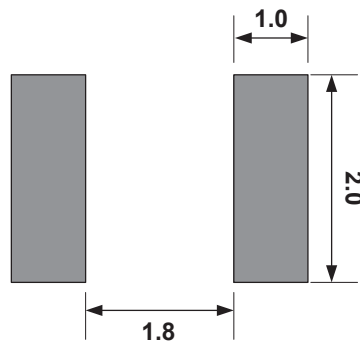
### Dimension

Unit:mm



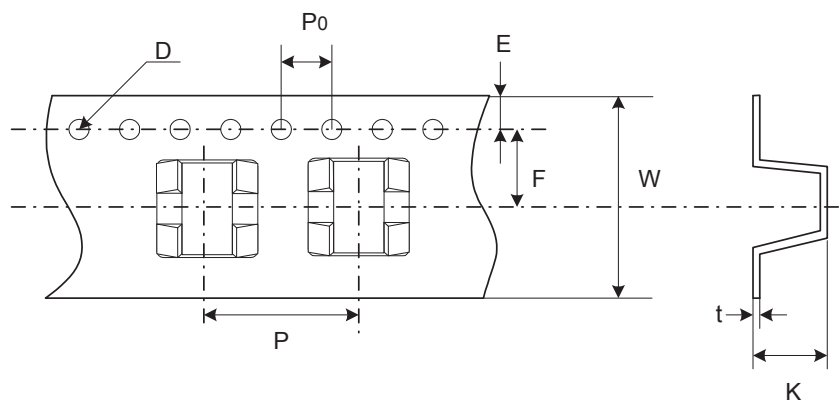
### Recommended Pad Size

Unit:mm



### Packaging Taping

Unit:mm

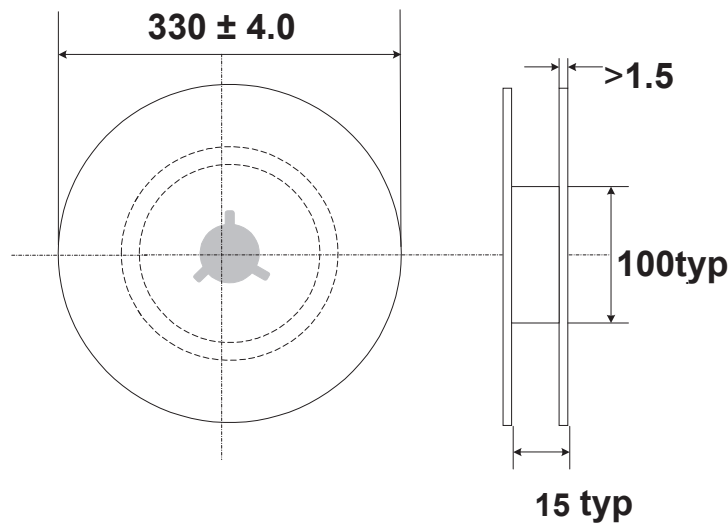


## Gas Discharge Tubes - SMD3216 Series

**Quantity: 900pcs per reel (13")**

Unit:mm

Item	P	PO	W	F	E	D	K	t
Spec.	8.0	4.0	12.0	5.45	1.75	Φ1.55	2.0	0.3
Tolerance	±0.1	±0.1	±0.3	±0.1	±0.1	±0.05	±0.1	±0.05



### Warehouse Storage Conditions of Products

- Storage Conditions:
  1. Storage Temperature: -10°C~+40°C
  2. Relative Humidity: ≤75%RH
  3. Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year

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