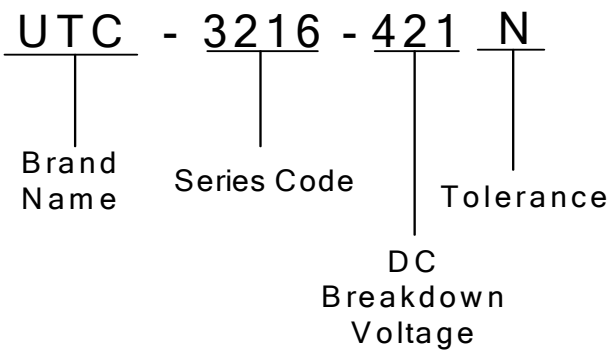
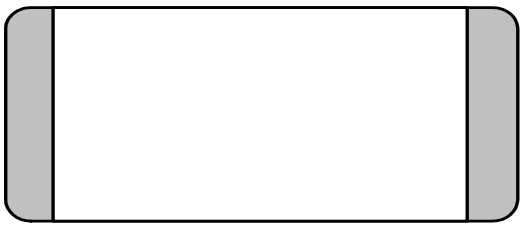
Unictron Technologies Corporation			
Product ：Gas Discharge Tube	Part No.: UTC-3216-421N	Page	1 / 3

1. PART NUMBER CODE

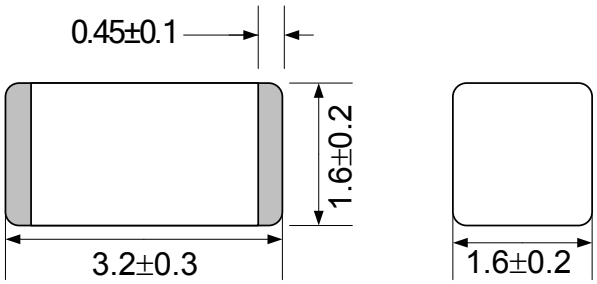


2. MARKING

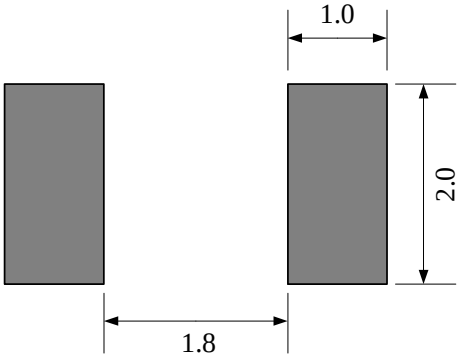


3. Outline Drawing

Unit：㎜



Recommended Pad Size



4. SPECIFICATION

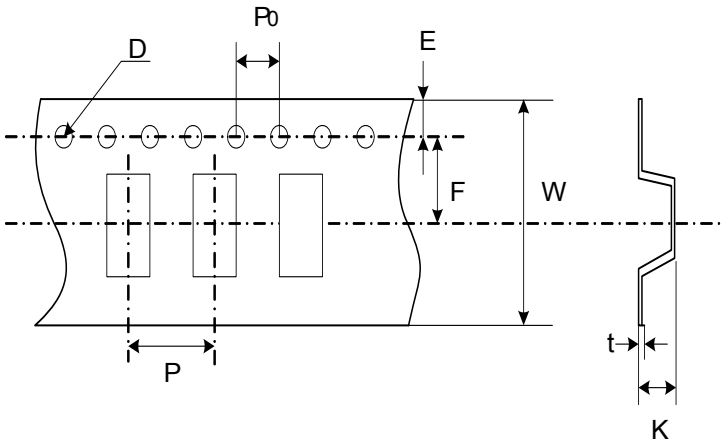
ELECTRICAL SPECIFICATION

Model	DC Breakdown Voltage	Impulse Discharge Current	Alternating Discharge Current	Impulse Withstanding Voltage Capacity 10/700 us 4kV	Impulse Life Test	Insulation Resistance	Capacitance (1MHz 1V)
421N	420V 294~546	8/20 us 500A	50HZ 1s 0.5A 10Times	Positive/Negative 5 Times	8/20 us 50A 300Times	100MΩ Min (DC 100V)	0.3pF Max.

Taping & Reel Specifications

unit :mm

Item	Spec
P	8.0±0.1
P0	4.0±0.1
W	12.0± 0.3
F	5.45± 0.1
E	1.75± 0.1
D	Φ1.55±0.05
K	2.0±0.1
t 0.	3±0.05



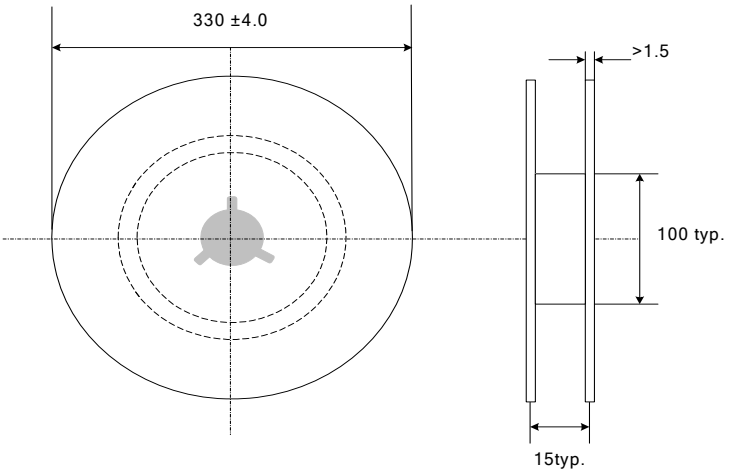
Quantity: 3000 pcs per reel

3 reels per inner box

5 inners box per carton

45,000 pcs per full carton

Reel



5. ELECTRICAL RATING

Item	Test Condition / Description	Requirement
DC Breakdown Voltage	The voltage measured at a rise time of 100v/s.	To meet the specified value
Maximum Impulse Discharge Current	The maximum current applying a waveform of 8/20us that can be applied across the terminals of the gas tube without causing the gas tube to change more than ±25% from its initial measured DC breakdown voltage. Dwell time between pulses is 3 minutes.	
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. DC breakdown voltage may not change more than ±25% from its initial measured DC breakdown voltage. IR > 10^8 ohms (-20%, +30% for 70 – 90V).	
Impulse Life	The minimum number of impulses of a specified waveform and peak current which a gas tube will conduct without causing the gas tube to change more than ±25% from its initial measured DC breakdown voltage. Dwell time between pulses is 1-2 minutes.	
DC Holdover Voltage	The maximum DC voltage across the two terminals of the gas tube under which it may be expected to return to the high impedance state after the gas tube breakdown.	
Insulation Resistance	The resistance of the gas tube shall be measured each terminal to each other terminal.	
	DC Breakdown Voltage / Measuring Voltage	
	70-150V / 50V	
	151-400V / 100V	
	470-1000V / 250V	
	1001-2000V / 500V	
	2001-6000V / 1000V	
Capacitance	The capacitance of a gas tube shall be measured each terminal to each other terminal. Test frequency: 1MHz In measurements involving 3-electrode gas tubes, the terminal not being tested shall be connected to a ground plane.	