



## Features

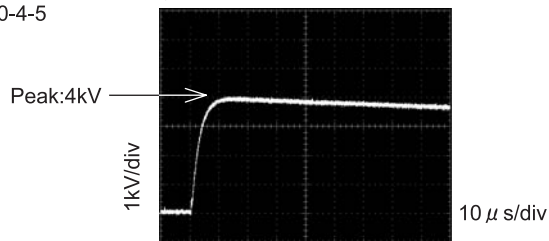
- Protection from lightning surge.
- Surface mounted Gas Arrester.
- IEC-61000-4-5.
- Impulse current capacity 2000A 8/20 $\mu$ s.
- Micro-Gap design.
- Electrostatic capacitance less than 0.6pF.

## Applications

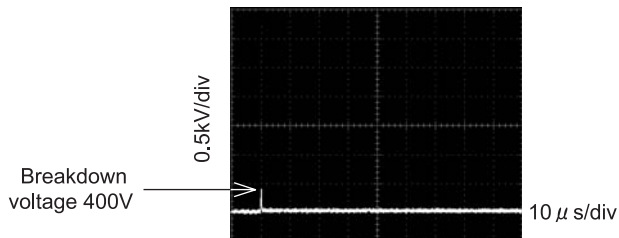
- CATV modem, Telecom protection, xBase T protection, Hub protection, Security systems, Data acquisition and Audio systems.

## Impulse Absorption Characteristics

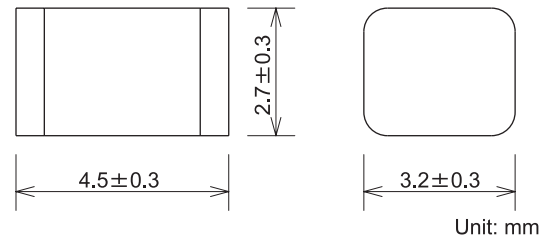
Impulse wave form 10/700 $\mu$ s-4kV,  
IEC61000-4-5



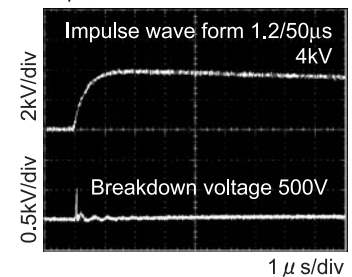
RHCA-201Q43U



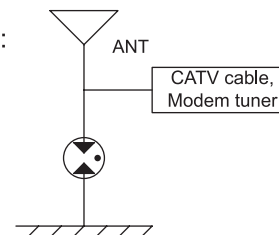
## Dimensions



Combination wave 1.2/50 $\mu$ s-8/20 $\mu$ s,  
4.0kV IEC61000-4-5



Example:



## Electrical Specifications

| Safety Agency                                                                       | Model Number  | DC Breakdown voltage | Insulation Resistance (DC 100V) | Capacitance (1MHz) | Impulse Life Test           | Impulse Discharge Current                       | Impulse Withstanding Voltage Capacitance                                          |
|-------------------------------------------------------------------------------------|---------------|----------------------|---------------------------------|--------------------|-----------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|
|  | RHCA-900Q43U  | 200V<br>(140 ~ 260)  | 1000MΩ Min.<br>(DC50V)          | 0.6pF Max.         | 8/20 μ s, 100A<br>300 Times | 8/20 μ s, 2000A<br>Positive/Negative<br>5 times | 10/700 μ s, 4kV<br>(R=25Ω)<br>Positeve/Negative<br>5 times<br>(comforms to ITU-T) |
|                                                                                     | RHCA-201Q43U  | 300V<br>(210 ~ 390)  | 1000MΩ Min.<br>(DC100V)         |                    |                             |                                                 |                                                                                   |
|                                                                                     | RHCA-301Q43U  | 350V<br>(245 ~ 455)  |                                 |                    |                             |                                                 |                                                                                   |
|                                                                                     | RHCA-351Q43U  | 400V<br>(280 ~ 520)  |                                 |                    |                             |                                                 |                                                                                   |
|                                                                                     | RHCA-401R43U  | 400V<br>(332 ~ 520)  |                                 |                    |                             |                                                 |                                                                                   |
|                                                                                     | RHCA-401Q43U* | 350V<br>(245 ~ 455)  |                                 |                    |                             |                                                 |                                                                                   |
|                                                                                     | RHCA-501Q43U  | 400V<br>(280 ~ 520)  |                                 |                    |                             |                                                 |                                                                                   |
|                                                                                     | RHCA-601R43U  | 400V<br>(332 ~ 520)  |                                 |                    |                             |                                                 |                                                                                   |

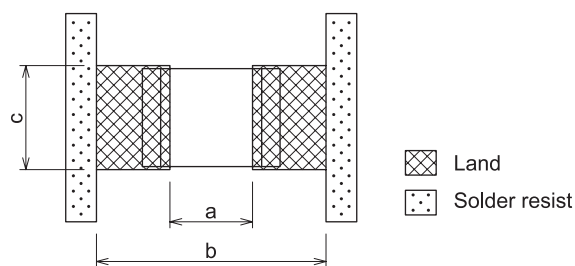
\* Conforms to ITU-T K.21 Enhanced test



## Part Numbering Systems

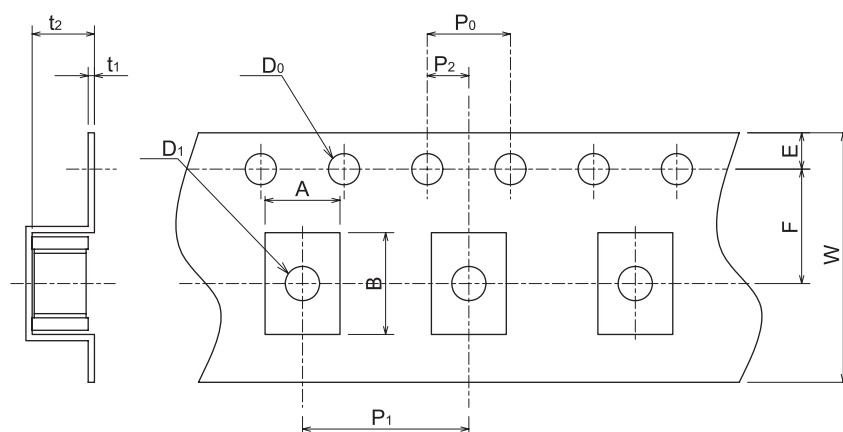
| RHCA   | 201                                       | Q         |      |                                                       | 43            | U            |      |
|--------|-------------------------------------------|-----------|------|-------------------------------------------------------|---------------|--------------|------|
| Series | DC Breakdown Voltage<br>201: 201X10 =200V | Tolerance |      |                                                       | Size          | Packing form |      |
|        |                                           | P         | Q    | R                                                     | 43            | U            | B    |
|        |                                           | ±20%      | ±30% | $\begin{smallmatrix} +30 \\ -17 \end{smallmatrix} \%$ | 4.5(L)×3.2(W) | Taping       | Bulk |

## ● Recommended Land Pattern



|                  | Dimensions (mm) |            |     |
|------------------|-----------------|------------|-----|
|                  | a               | b          | c   |
| Reflow Soldering | 2.7             | 6.5 to 8.5 | 3.4 |
| Flow Soldering   | 2.9             | 6.5 to 9.5 | 3.6 |

## ● Taping Dimensions

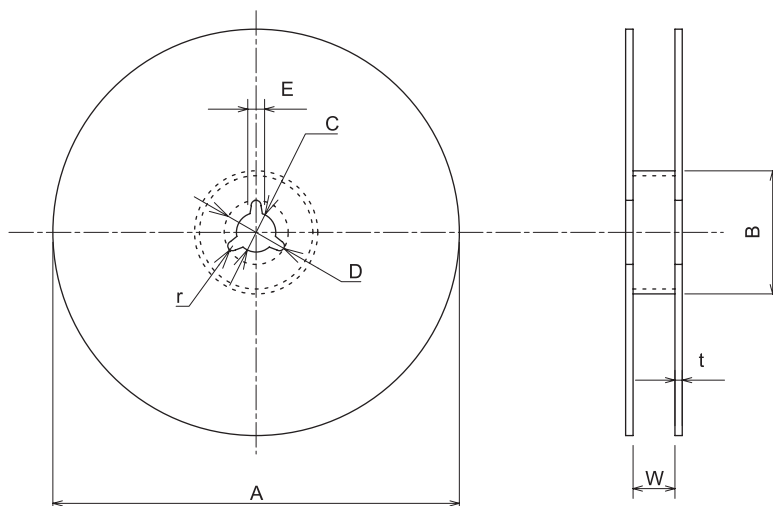


Unit: mm

| A       | B       | W        | F        | E        | P <sub>1</sub> | P <sub>2</sub> | P <sub>0</sub> |
|---------|---------|----------|----------|----------|----------------|----------------|----------------|
| 3.6±0.2 | 4.9±0.2 | 12.0±0.3 | 5.5±0.05 | 1.75±0.1 | 8.0±0.1        | 2.0±0.05       | 4.0±0.1        |

| D <sub>0</sub>                      | D <sub>1</sub> | t <sub>1</sub> | t <sub>2</sub> |
|-------------------------------------|----------------|----------------|----------------|
| φ 1.5 <sup>+0.1</sup> <sub>-0</sub> | φ 1.65±0.15    | 0.30±0.1       | 3.0±0.2        |

● Reel Dimensions  
(3000pcs per one reel)

Unit: mm

| A       | B        | C          | D        | E       | W                                    | t       | r   |
|---------|----------|------------|----------|---------|--------------------------------------|---------|-----|
| φ 330±2 | φ 80±0.5 | φ 13.0±0.5 | φ 21±0.8 | 2.0±0.5 | 13.5 <sup>+1.0</sup> <sub>-0.5</sub> | 1.6±0.5 | 1.0 |