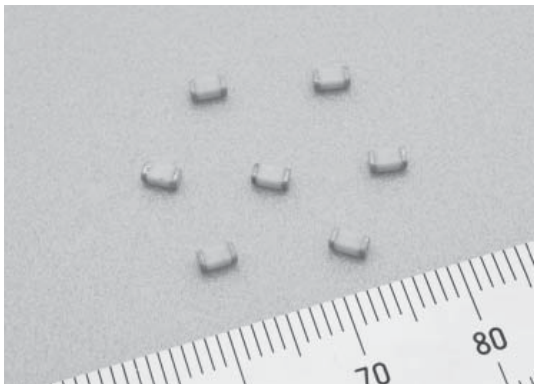
RHCA3216 series is chip surge absorber for protection from static electricity/indirect lighting surge, smaller and thinner than ceramic tube lead type, adaptable for high density surface mount technology. Impulse current capacity is 2,000A 8/20μs.

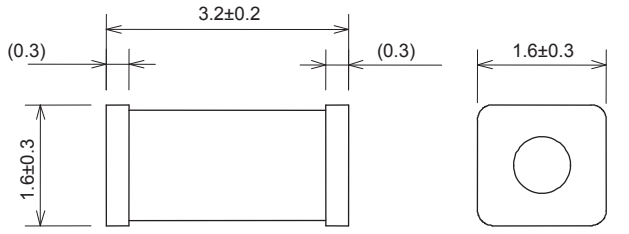
Features

- Chip surge absorber for protection from static electricity/indirect lighting surge, adaptable to high density surface mount technology
- Usable for reflow / flow soldering
- Compliance with IEC61000-4-5
  1. Surge current capacity 8/20μs-500A ±5times
  2. 10/700μs 4,000V (R=25Ω) ±5times
- Good impulse absorbency
- Electrostatic capacity (Maximum 0.15pF)
- Embossed taping
- RoHS Directive-compliant components

Safety Standard		File No.
UL	:UL497B	E139599



● *Dimensions*

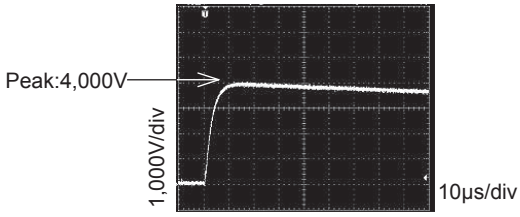


*Without marking

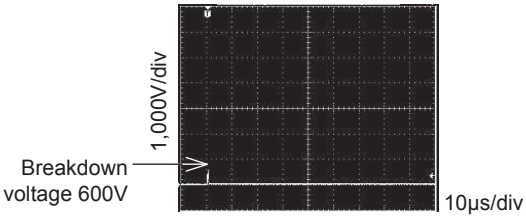
Unit: mm

● *Impulse Absorption Characteristics*

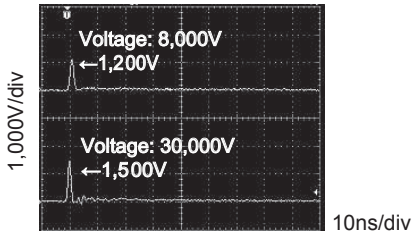
Impulse waveform 10/700μs-4,000V, IEC61000-4-5



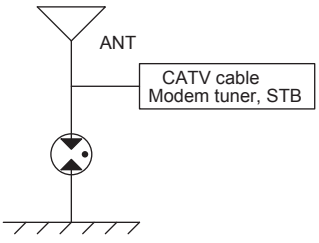
RHCA-201Q31U



IEC61000-4-2 150pF-330Ω-XkV
RHCA-201Q31U
ESD impulse waveform



● *Example*



Electrical Specifications

Safety Standard	Model Number *1	DC Breakdown Voltage (V)	Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max	Impulse Life Test	Impulse Current Capacity	Impulse Withstanding Voltage Capacity*2
	RHCA-900□31U	90	100(DC50V)	0.15	8/20μs, 50A 300 times	8/20μs, 500A (R=2Ω) Positive/Negative 5 times	10/700μs, 4,000V (R=25Ω) Positive/Negative 5 times
	RHCA-201□31U	200	100(DC100V)				
	RHCA-301□31U	300					
	RHCA-401□31U	400					
	RHCA-501□31U	500					

*1 □: Tolerance ±20%=P, Tolerance ±30%=Q
*2 Comforms to ITU-T K.20, K.21 Enhanced test
Operating Temperature: -20~+80°C

● Model numbering system

R	H	C	A	–	2	0	1	Q	3	1	U

Series Name

DC Breakdown Voltage

201	20X10¹=200V

Tolerance of DC Breakdown Voltage

P	±20%
Q	±30%

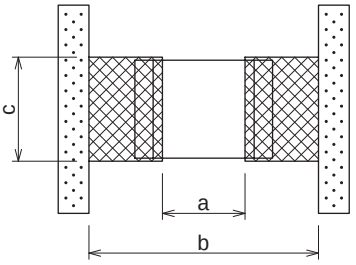
Size

31	3.2(L)×1.6(W)

Packing form

U	Taping

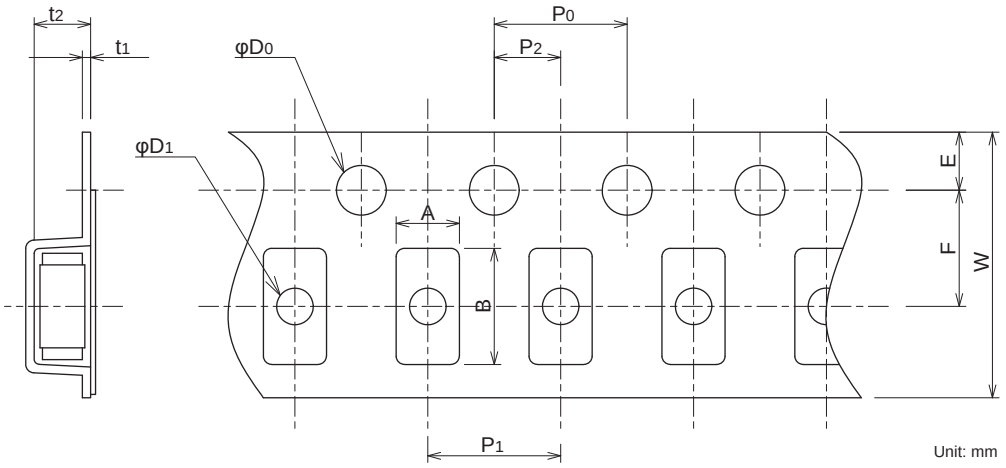
● *Recommended Land Pattern (Typical value)*



Unit: mm

	Dimensions (mm)		
	a	b	c
Reflow Soldering	1.8 ~ 2.5	3.8 ~ 5.5	1.2 ~ 2.0
Flow Soldering		2.4 ~ 3.6	1.2 ~ 1.6

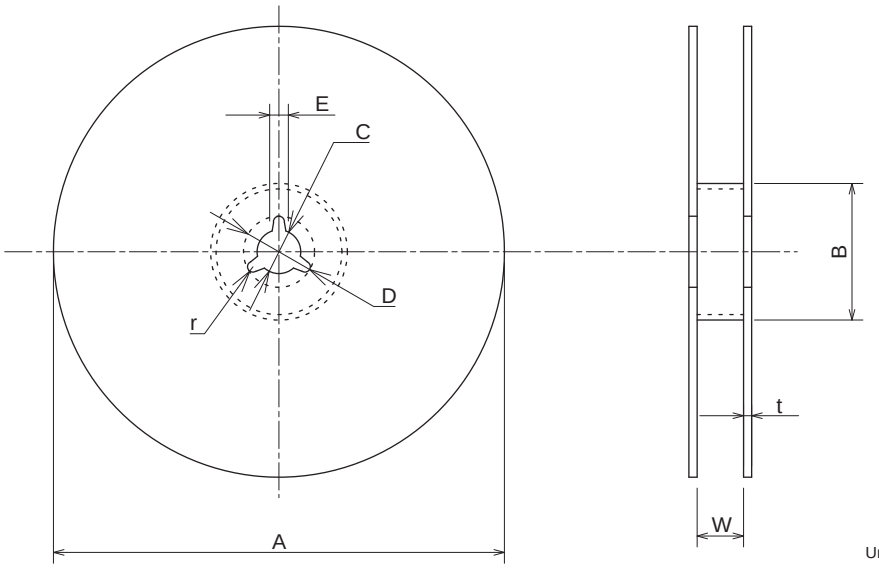
● *Taping Dimensions*



Unit: mm

Dimensions (mm)	
A	$1.9^{+0.2}_{-0.1}$
B	3.5±0.1
W	8.0±0.3
F	3.5±0.05
E	1.75±0.1
P_1	4.0±0.1
P_2	2.0±0.05
P_0	4.0±0.1
D_0	$\varphi\ 1.5^{+0.1}_{-0}$
D_1	φ 1.1±0.1
t_1	0.3±0.1
t_2	$2.0^{+0.1}_{-0.4}$

● *Reel Dimensions (2,000pcs per one reel)*



Unit: mm

Dimensions (mm)	
A	$\varphi\ 180.0^{+0}_{-1.5}$
B	$\varphi\ 60^{+1}_{-0}$
C	φ 13.0±0.2
D	φ 21.0±0.8
E	2.0±0.5
W	$9.0^{+1.0}_{-0.5}$
t	1.6±0.5
r	1.0