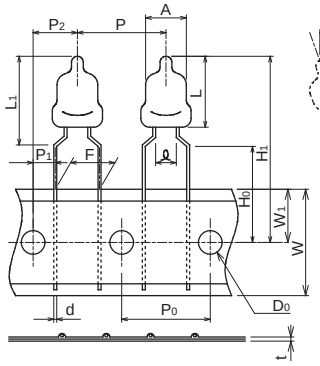
# RA-MX-V7-Y/ Y(5) SERIES SURGE PROTECTIVE DEVICES

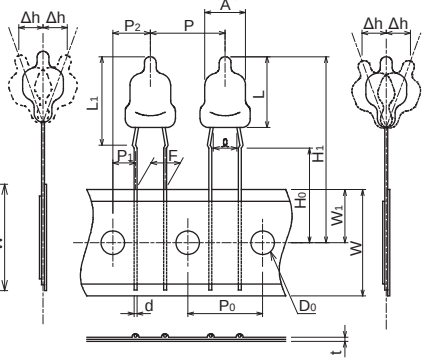
OKAYA

## ● *Taping Dimensions*

RA-MX-V7-Y



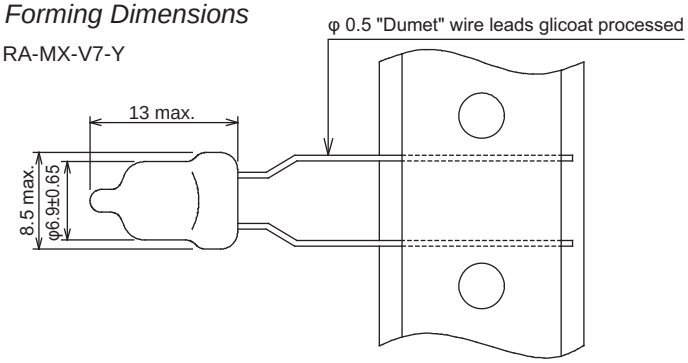

RA-MX-V7-Y(5)



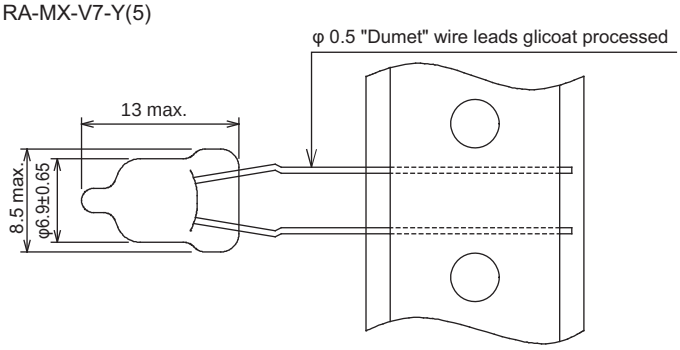

Unit: mm

## ● *Forming Dimensions*

RA-MX-V7-Y




RA-MX-V7-Y(5)




Unit: mm

| Description | | Symbol | Dimension (mm) | |
|---|---|---|---|---|
| | | | RA-MX-V7-Y | RA-MX-V7-Y(5) |
| RA | High | L | 13.0 max. | |
| | Lamp Diameter | A | φ 6.9±0.65 | |
| | Lead Diameter | d | φ 0.5±0.05 | |
| | Leads clearance | ℓ | 4.0 min. | |
| Height from PCB top | | $L_1$ | 18.0 max. | |
| Lamp pitch | | P | 15.0±1.0 | 12.7±1.0 |
| Hole pitch | | $P_0$ | 15.0±0.3 | 12.7±0.3 |
| Hole position | | $P_1$ | 3.75±0.7 | 3.85±0.7 |
| | | $P_2$ | 7.5±1.3 | 6.35±1.3 |
| Lead pitch | | F | 7.5±0.5 | $5.0^{+0.6}_{-0.2}$ |
| Declining | | Δh | ±2.0 | |
| Paper width | | W | 18.0±0.5 | |
| Hole position | | $W_1$ | 9.0±0.5 | |
| Lead clinch height | | $H_0$ | 16.0±0.5 | |
| Product height* | | $H_1$ | (34.5) | |
| Hole diameter | | $D_0$ | φ 4.0±0.2 | |
| Paper thickness | | t | 0.9 max. | |

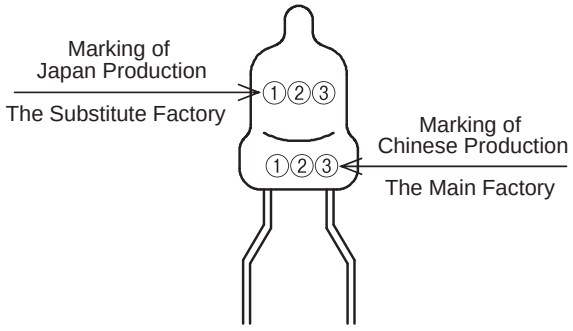
*Accumulated pitch error

| | 4 pitch | 20 pitch |
|---|---|---|
| RA-MX-V7-Y | 60.0±0.6 | 300±1.5 |
| RA-MX-V7-Y(5) | 50.8±0.6 | 254±1.5 |

## ● *Packing Quantity per Carton*

RA-MX-V7-Y Series: 1,500 pcs
RA-MX-V7-Y(5) Series: 1,800 pcs

## ● *Packing Description of Marking*




① ……DC Breakdown Voltage

| DC Sparkover voltage brevity code | 501 | 601 | 102 | 152 | 242 | 302 | 362 | 402 | 452 |
|---|---|---|---|---|---|---|---|---|---|
| Code | F | A | J | K | T | L | S | V | Y |

② ……The year manufactured eg.) 2016→6
③ ……The month manufactured (see below)

| Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Symbol | A | B | D | E | F | G | H | J | K | L | M | N |

## Safety Standard

| UL | CSA | TÜV | Model Number |
|---|---|---|---|
| ○ *1 *3 | ○ *4 *5 | - | RA-501MX-V7-Y/Y(5) |
| ○ *1 *3 | ○ *4 *5 | - | RA-601MX-V7-Y/Y(5) |
| ○ *2 *3 | ○ *4 *5 | - | RA-102MX-V7-Y/Y(5) |
| ○ *2 *3 | ○ *4 *5 | - | RA-152MX-V7-Y/Y(5) |
| ○ *2 *3 | ○ *4 *5 | - | RA-242MX-V7-Y/Y(5) |
| ○ *1 *3 | ○ *4 *5 | ○ *6 | RA-302MX-V7-Y/Y(5) |
| ○ *1 *3 | ○ *4 *5 | ○ *6 | RA-362MX-V7-Y/Y(5) |
| ○ *1 *3 | ○ *4 *5 | ○ *6 | RA-402MX-V7-Y/Y(5) |
| ○ *1 *3 | ○ *4 *5 | ○ *6 | RA-452MX-V7-Y/Y(5) |

Rated voltage <A>: Approved if it is connected to UL approved varistor <B>.

| | A | B |
|---|---|---|
| *1 | AC125V | V1.0≥270V, D≥φ7mm |
| *2 | AC125V | V1.0≥270V, D≥φ5mm |
| *3 | AC250V | V1.0≥390V, D≥φ7mm |
| *4 | AC125V | V1.0≥270V, D≥φ14mm |
| *5 | AC250V | V1.0≥470V, D≥φ14mm |
| *6 | AC125V / AC250V | V1.0≥470V, D≥φ5mm |

RoHS

# RA-MX-V7-Y(SJQ) SERIES SURGE PROTECTIVE DEVICES

OKAYA

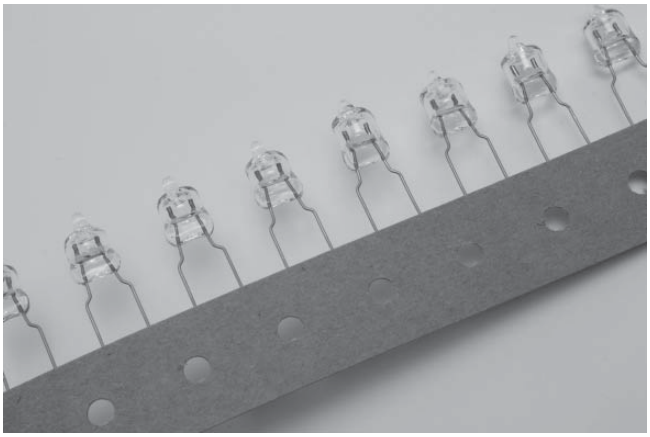
## Features

- Invented 3mm height smaller size of RA-MX-V7 (SJQ) Series compare with present productions
- Dielectric strength voltege test compliant
- High-speed response of surge
- Wide range of lineup DC4,000 and 4,500V
- Approved for UL, CSA, TÜV

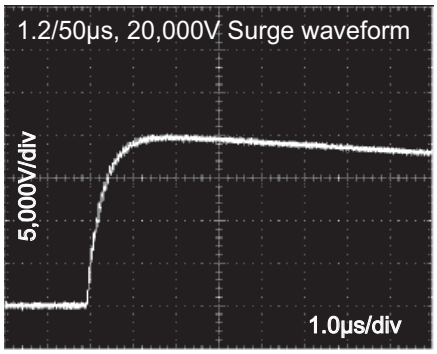
| Safety Standard | | File No. |
|---|---|---|
| UL | :UL1449 3rd. | E322107 |
| CSA | :C22.2 No.60065 | CA105073 |
| TÜV | :EN60065<br>:EN60950-1 | J50114145 |
| JQA | :J60065(H26) | JQ10641-1 |

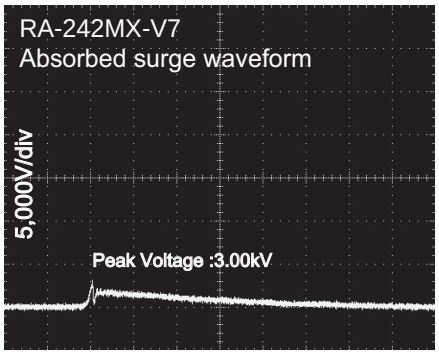
## Applications

- LCD-TV, PDP-TV
- Blue-Ray recorder
- Antenna amplifier (Booster)
- Copier, Telecommunication equipment

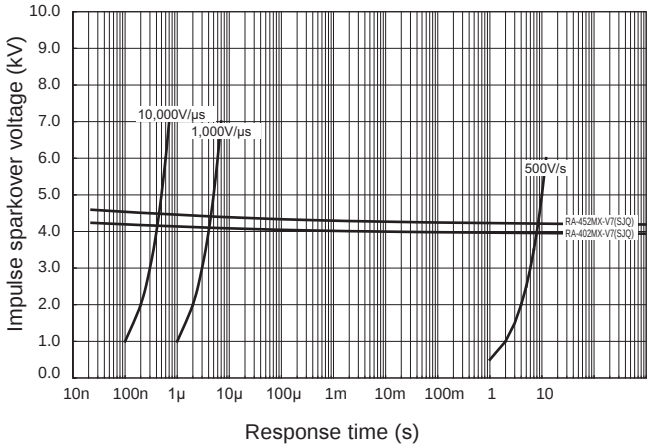


- *Impulse Absorption Characteristics*




- *V-t Characteristics*




## Electrical Specifications

| Model Number | DC Breakdown Voltage (V) | Impulse Sparkover Voltage 1.2/50μs (V) max. | | Insulation Resistance (MΩ) min. | Capacitance 1MHz (pF) max. | Impulse Life test 8/20μs 100A | Impulse Current Capacity 8/20μs (A) | Withstanding Voltage |
|---|---|---|---|---|---|---|---|---|
| | | Applied Voltage | Specification | | | | | |
| RA-402MX-V7-Y(SJQ) | 4,000(3,200~4,800) * | 7,500V | 7,500V max. | 1,000(DC500V) | 1.0 | 300 times | 3,500 | AC2,000V 60s |
| RA-452MX-V7-Y(SJQ) | 4,500(3,600~5,400) * | 8,000V | 8,000V max. | 1,000(DC1kV) | | | | AC2,000V 60s |

* Reference Value

Operating Temperature: -20~+80°C