



Features

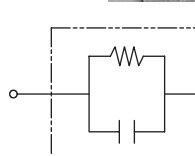
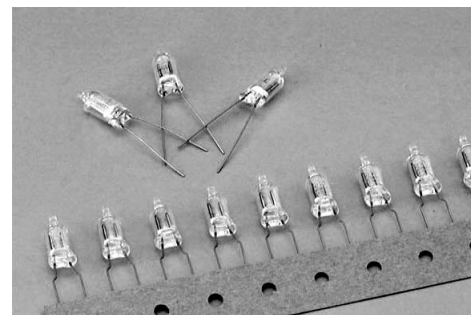
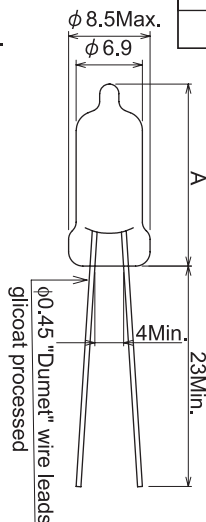
- Fast response time.
- Bi-polar surge absorber, it will fail open if the surge withstand capacity is exceeded.
- Small inter-terminal capacitance.
- High insulation resistance ($1 \times 10^9 \Omega \cdot \text{min}$).
- Excellent surge withstand capability (300times at 100A, $8 \times 20 \mu\text{s}$).
- Small size for compact circuit design.

Applications

- xDSL modems, Splitters, BS tuner, CRT, VCR, Telephone, Modems, Car audio and GPS.

Electrical Specifications

Safety Agency : Standard		File NO.
UL	UL1449, UL1414	E143446, E47474
CSA	C22.2 No.1	LR105073
TÜV	IEC60384-14	J95511033



Dimensions

	A
RA-M-V7	19 Max.
RA-MS-V7	16 Max.

Safety Standard				Model Number	DC Spark-over Voltage (V)	Capacitance 1kHz-1.5V (pF)	Peak Surge Current 8/20μs (A)	Impulse Life test 8/20μs 100A	Withstand Voltage Test
UL 1449	UL 1414	CSA	TÜV						
○ 1)	—	—	—	RA-501M/MS-V7	500 (400~600)	2.0Max.	3500	300	-
○ 1) 2)	—	—	—	RA-601M/MS-V7	600 (480~720)				-
○ 1) 2)	—	—	—	RA-102M/MS-V7	1000 (800~1200)				-
○ 1) 2)	—	—	—	RA-152M/MS-V7	1500 (1200~1800)				-
○ 1)	○ 1)	○ 1)	—	RA-242M-V7	2400 (1920~2880)				AC1250V 3s
○ 1) 2)	○ 1) 2)	○ 3)	○ 3)	RA-302M-V7	3000 (2400~3600)				AC1500V 60s
○ 1) 2)	○ 1) 2)	○ 3)	○ 3)	RA-362M-V7	3600 (2880~4320)				AC1800V 3s
○ 2)	○ 2)	— 5)	○ 4)	RA-402M-V7	4000 (3200~4800)				AC2000V 60s
○ 2)	○ 2)	— 5)	○ 4)	RA-452M-V7	4500 (3600~5400)				AC2000V 60s
○ 1)	○ 1)	— 5)	—	RA-242MS-V7	2400 (1920~2880)				AC1250V 3s
○ 1) 2)	○ 1) 2)	— 5)	○ 3)	RA-302MS-V7	3000 (2400~3600)				AC1500V 60s
○ 1) 2)	○ 1) 2)	○ 3)	○ 3)	RA-362MS-V7	3600 (2880~4320)				AC1800V 3s
○ 2)	○ 2)	—	○ 3)	RA-402MS-V7	4000 (3200~4800)				AC2000V 60s
○ 2)	○ 2)	○ 3)	○ 3)	RA-452MS-V7	4500 (3600~5400)				AC2000V 60s

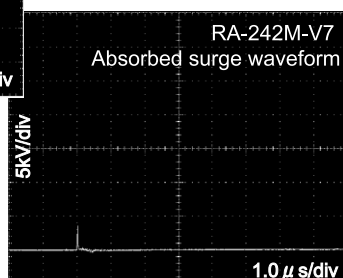
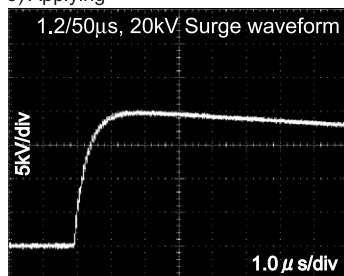
1) Rated voltage AC125V: Approved if it is connected to UL approved varistor ($V1.0\text{mA} \geq 270\text{V}$, $D \geq \phi 5\text{mm}$).

2) Rated voltage AC250V: Approved if it is connected to UL approved varistor ($V1.0\text{mA} \geq 390\text{V}$, $D \geq \phi 7\text{mm}$).

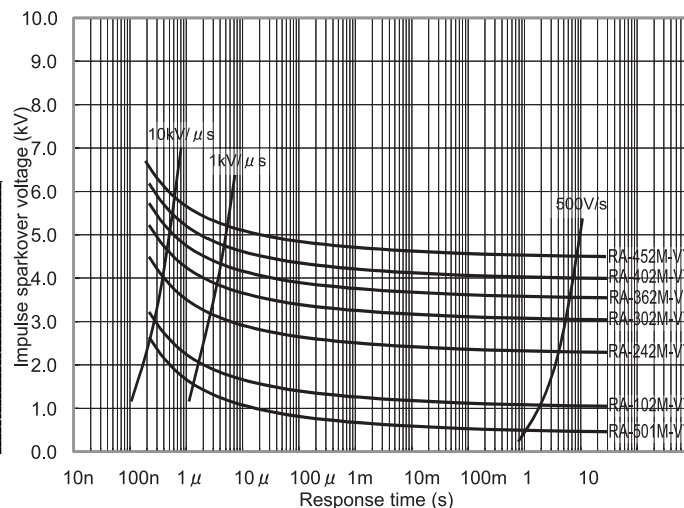
3) Rated voltage AC250V: Approved if it is connected to UL approved varistor ($V1.0\text{mA} \geq 270\text{V}$, $D \geq \phi 5\text{mm}$).

4) Rated voltage AC250V: Approved if it is connected to UL approved varistor ($V1.0\text{mA} \geq 270\text{V}$, $D \geq \phi 10\text{mm}$).

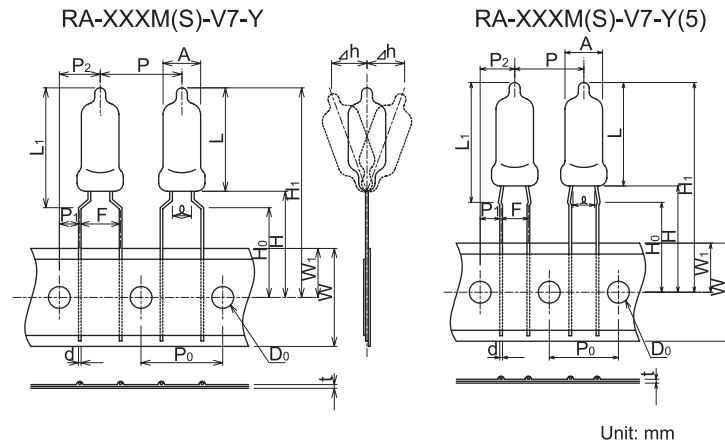
5) Applying



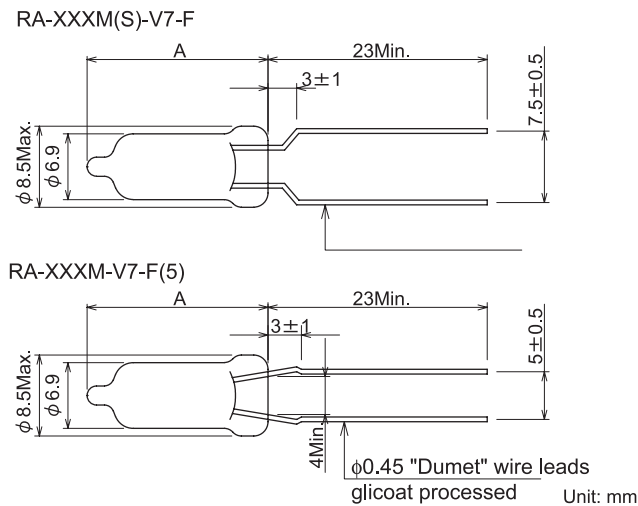
V-t Characteristics



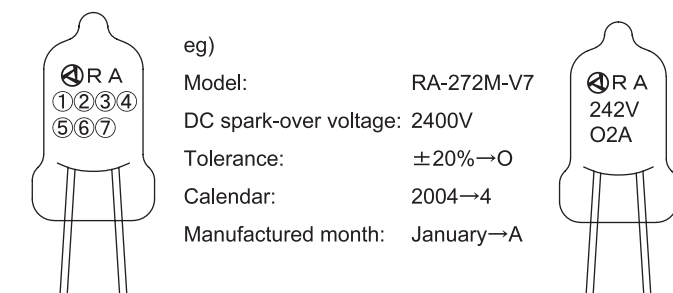
- Taping Dimensions



- Forming Dimensions



Marking



- ①②③.....DC Spark-over Voltage ①②×10^③
④.....V (Radial)
⑤.....Tolerance

Tolerance	±20%	⁺³⁰ / ₋₁₀ %	Other
Symbol	O	R	-

⑥.....Last digit of the calendar year eg.) 2004→4

⑦.....The month manufactured (see below)

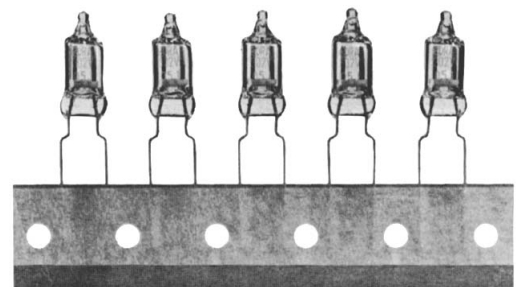
Month	1	2	3	4	5	6	7	8	9	10	11	12
Symbol	A	B	D	E	F	G	H	J	K	L	M	N

Description	Symbol	Dimension	
		RA-M(S)-V7-Y	RA-M(S)-V7-Y(5)
Hight	L	19.0Max. (16.0Max.)	
Lamp Diameter	A	φ 6.9±0.65	
Lead Diameter	d	φ 0.5±0.05	
Width between leads	Δ	4.0Min.	
Product hight from board	L1	22.0Max. (19.0Max.)	
Lamp pitch	P	15.0±1.0	12.7±1.0
Hole pitch	P0	15.3±0.3 注	12.7±0.3 注
Hole position	P1	3.75±0.7	3.85±0.7
	P2	7.5±1.3	6.35±1.3
Pitch between leads	F	7.5±0.5	5.0± ^{0.6} / _{0.2}
Declining	Δh	±2.0	
Paper width	W	18.0±0.5	
Hole position	W1	9.0±0.5	
Lead clinch height	H0	16.0±0.5	
Product height	H1	38.5Max. (35.5Max.)	
Lead length	H	19.5Max.	
Hole diameter	D0	φ 4.0±0.2	
Paper thickness	t	0.7±0.2	

Accumulative pitch error:

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

RA-XXXM(S)-V7-Y



RA-XXXM(S)-V7-Y(5)

