



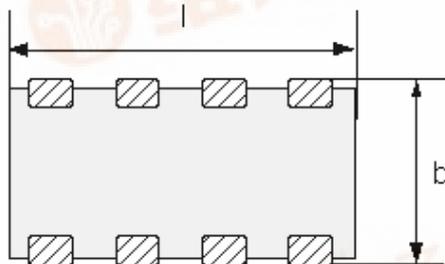
Metal Oxide Varistor	CA06P4S17ALCGK2
SMD Multilayer Varistor Array with AgPt Termination	B72728A2170S162

Data sheet

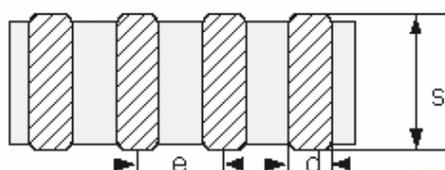
Designation System:

- CA = **C**hip **A**rray
- 06 = Dimensions of the device **06**x**12** (Length x width in 1/100 inch)
- P = Design (**P**arallel internal structure)
- 4 = Number of elements
- S...A = **S**pecial tolerance **A** of the varistor voltage
- 17 = Max. operating voltage
- LC = **L**ow **C**apacitance
- G = Taped version (blister tape, 7" reel, 3000 pieces/reel)
- K2 = Silver-platinum termination (Ag/Pt)

Figure:



- $l = 3,2 \pm 0,2$
- $b = 1,6 \pm 0,15$
- $s = 0,9 \text{ max.}$
- $d = 0,4 \pm 0,15$
- $e = 0,76 \pm 0,15$



Coplanarity < 0.1

(All dimensions in mm)

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Metal Oxide Varistor

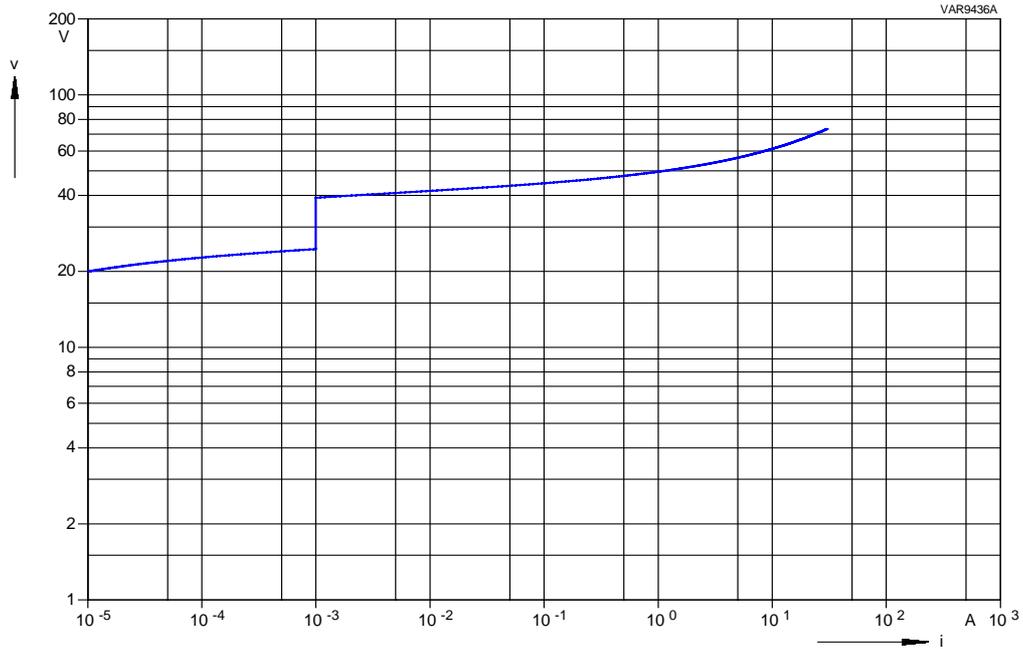
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SMD Multilayer Varistor Array with AgPt Termination

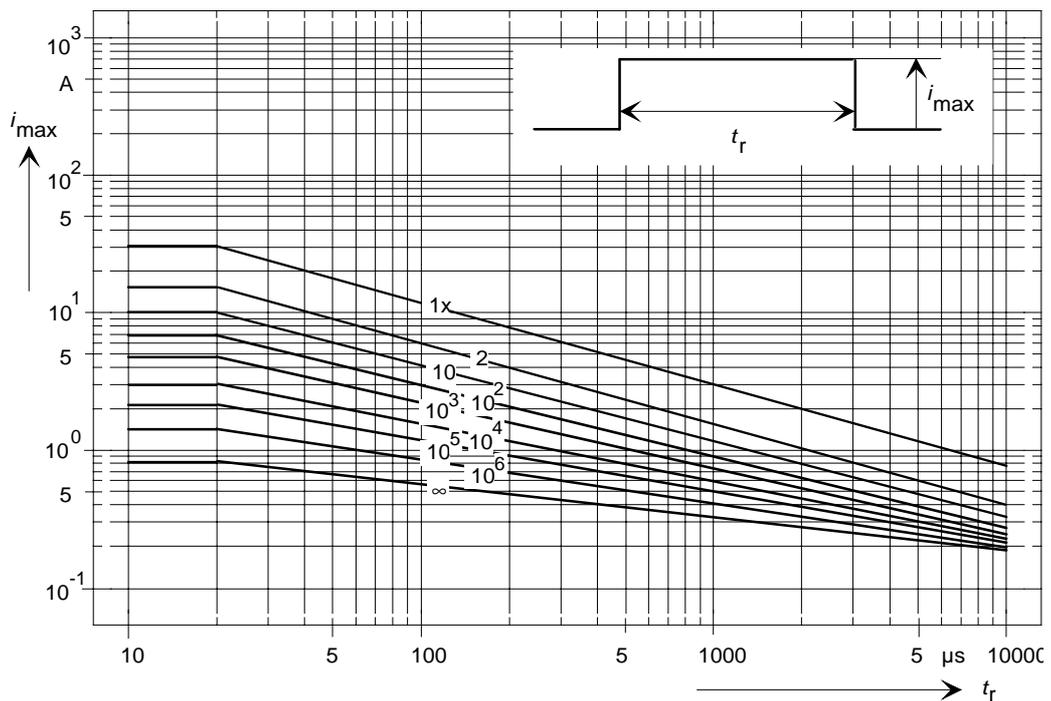
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V-I-Characteristic:



Derating Field:



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Electrical Data

Max. operating voltage

RMS voltage

$V_{\text{eff}} = 17 \text{ V}$

DC voltage

$V_{\text{DC}} = 22 \text{ V}$

Varistor voltage (@ 1 mA)

$V_V = 25 - 40 \text{ V}$

Max. clamping voltage (@ 1 A)

$V_C = 50 \text{ V}$

Max. average power dissipation

$P_{\text{max}} = 3 \text{ mW}$

Max. surge current (8/20 μs)

$\hat{I}_{\text{max}} = 1 \times 30 \text{ A}$

Max. energy absorption (2 ms)

$E_{\text{max}} = 1 \times 0.075 \text{ J}$

Capacitance (@ 1MHz, 0.5 V)

$< 75 \text{ pF}$

Response time

$< 0.5 \text{ ns}$

Operating temperature

$-30 \dots +85 \text{ }^\circ\text{C}$

Storage temperature (mounted parts)

$-40 \dots +125 \text{ }^\circ\text{C}$

Termination material

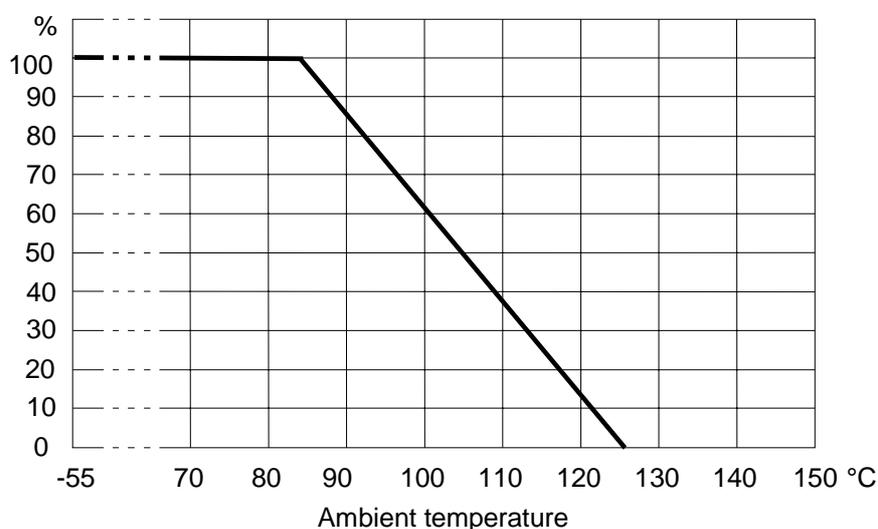
AgPt

(thickness not specified, adjusted to fulfill wettability specification acc. to **IEC 60068-2-58**)

Part weight

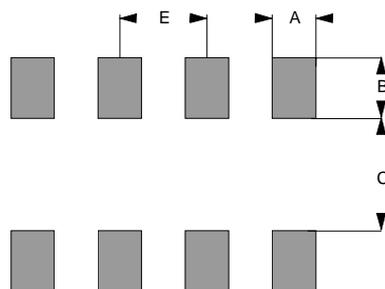
0.02 g

Max. current, energy, operating voltage and average
depending on ambient temperature

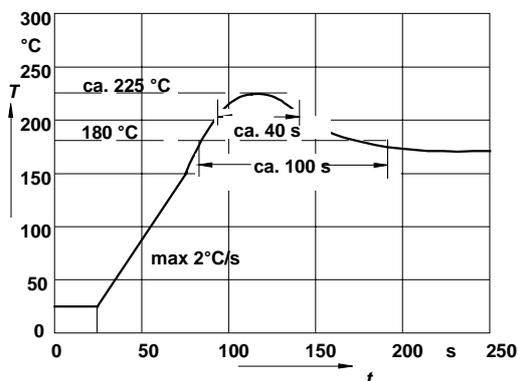


Recommended Geometry of Solder Pads

A = 0,5 mm
 B = 0,7 mm
 C = 1,2 mm
 E = 0,76 mm



Recommended Soldering Temperature Profiles



This component is only suited for IR-soldering at relatively low temperatures and must not be wave soldered because of dissolution of the metallization!

Max. reflow temperature: 235° C, 30 sec
 220° C, 45 sec.

Max. reflow cycles: 2 x .

As far as possible, the components shall be employed within 6 months. They should be left in their original packings to avoid soldering problems due to oxidized contacts.

Storage temperature: -25 to 45°C

Relative humidity: <75% annual average, <95% on max. 30 days in a year.

The usage of mild, non activated fluxes for soldering is recommended, as well as a proper cleaning of the PCB.



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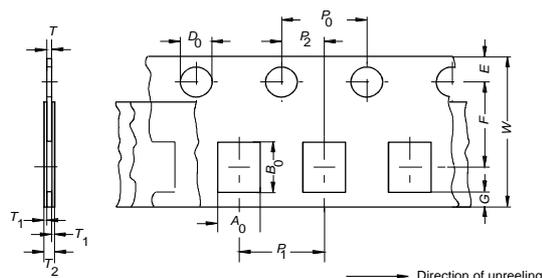
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Taping According to IEC 60286-3

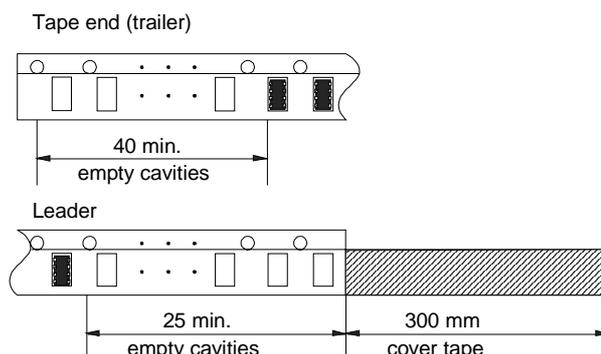
Dimensions and tolerances

Tape material: plastic embossed



Definition	Symbol	Dim.	Tolerance
Compartment width	A_0	1.9	± 0.2
Compartment length	B_0	3.5	± 0.2
Compartment height	K_0	1.3	max.
Sprocket hole diameter	D_0	1.5	+0.1 /-0
Compartment hole diameter	D_1	1.0	min.
Sprocket hole pitch	P_0	4.0	± 0.1 ¹⁾
Distance center hole to center compartment	P_2	2.0	± 0.05
Pitch of the component compartments	P_1	4.0	± 0.1
Tape width	W	8.0	± 0.3
Distance edge to center of hole	E	1.75	± 0.1
Distance center hole to center compartment	F	3.5	± 0.05
Overall thickness	T_2	2.5	max.

¹⁾ $\leq \pm 0.2$ mm over any 10 pitches



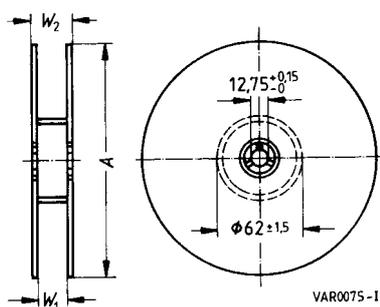
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Package

Each reel in airtight plastic bag with desiccant bag.
Dimensions approx. 220 x 200 mm.

Package: 8 mm tape

Reel material: plastic



Definition	Symbol	Dim.	Tol.
Reel diameter	A	180	-2
Reel width (inside)	W_1	8.4	+1.5 /-0
Reel width (outside)	W_2	14.4	max.

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