



## ORDERING CODE

JV R 07 N 181 K 6 5 Y AW

**Joyin ZnO Varistor**  
久尹氧化鋅壓敏電阻

R / H = EPOXY Coating &  
Operating Temperature 85°C  
C = EPOXY Coating, Copper electrode &  
Operating Temperature 85°C  
T = Silicone Coating &  
Operating Temperature 125°C

**Element Size (disc dia.)**  
瓷片直徑別

05 =  $\phi$  5mm  
07 =  $\phi$  7mm  
10 =  $\phi$  10mm  
14 =  $\phi$  14mm  
20 =  $\phi$  20mm  
25 =  $\phi$  25mm

**Series 系列別**

N = Standard 標準系列  
S = High Surge 高突波電流系列  
U = Ultra Surge 超高突波電流系列

**Varistor Voltage 電壓值**

The first two digits indicate voltage.  
前兩位數字代表電壓

The third digit signifies the number of zeroes.  
第三位數字代表電壓0的次數

for example 例如：

080 = 8V  
180 = 18V  
181 = 180V  
182 = 1800V

**Varistor Voltage Tolerance**

壓敏電壓容許差

K =  $\pm 10\%$   
L =  $\pm 15\%$   
M =  $\pm 20\%$   
P =  $\pm 25\%$

**Lead Diameter**

線徑

6 =  $0.6 \pm 0.05\text{mm}$   
8 =  $0.8 \pm 0.05\text{mm}$   
1 =  $1.0 \pm 0.05\text{mm}$

**Lead Length & Packaging**  
腳長及包裝方式

50 =  $5 \pm 1.0\text{mm}$  for Straight lead  
5 =  $0.5\text{mm}$  for Kink lead

U4 = 24mm min. for Bulk and Kink lead

U5 = 25mm min. for Bulk and Straight lead

AW = H0 16mm for Ammo and Kink lead

AY = H0 20mm for Ammo and Straight lead

RW = H0 16mm for T/R and Kink lead

RY = H0 20mm for T/R and Straight lead

\* Special spec per request.

**Lead Style 腳型**

Y = Vertical Kink Lead (standard)

P = Straight Lead

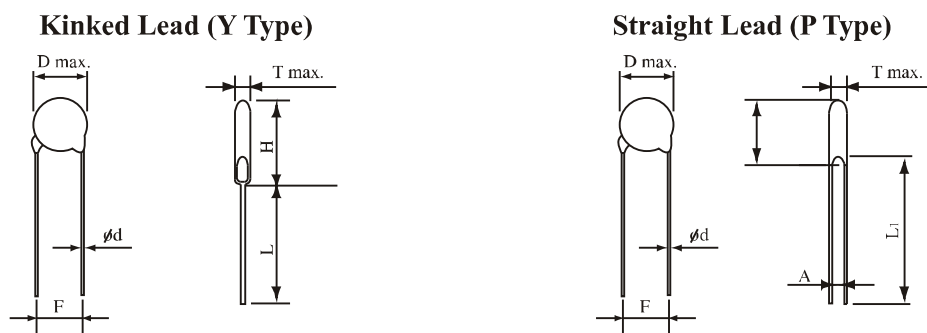
\* Special lead styles per request

**Lead Spacing 線距**

5 = 5.0mm

7 = 7.5mm

1 = 10mm



Dimension Table

unit:mm

| Diameter     | 5mm  | 7mm  | 10mm   | 14mm   | 20mm   |
|--------------|------|------|--------|--------|--------|
| D max.       | 7.5  | 9.0  | 12.5   | 16.5   | 23     |
| $d \pm 0.05$ | 0.6  | 0.6  | 0.8    | 0.8    | 1.0    |
| $F \pm 1.0$  | 5.0  | 5.0  | 7.5    | 7.5    | 10.0   |
| H max.       | 11.0 | 13   | 18/*19 | 22/*23 | 28/*29 |
| $L_1$ min.   | 25.0 | 25.0 | 25.0   | 25.0   | 25.0   |
| L min.       | 24.0 | 24.0 | 24.0   | 24.0   | 24.0   |

\*Just for 182K

Table of T max., A & H<sub>1</sub> max.

unit:mm

| Diameter | 5mm    |             |                     | 7mm    |             |                     | 10mm   |             |                     | 14mm   |             |                     | 20mm   |             |                     |
|----------|--------|-------------|---------------------|--------|-------------|---------------------|--------|-------------|---------------------|--------|-------------|---------------------|--------|-------------|---------------------|
| Type No. | T max. | A $\pm 0.8$ | H <sub>1</sub> max. | T max. | A $\pm 0.8$ | H <sub>1</sub> max. | T max. | A $\pm 0.8$ | H <sub>1</sub> max. | T max. | A $\pm 0.8$ | H <sub>1</sub> max. | T max. | A $\pm 0.8$ | H <sub>1</sub> max. |
| 180M     | 4.5    | 0.8         | 10.5                | 4.5    | 0.8         | 12.0                | 4.9    | 0.8         | 15.5                | 5.0    | 0.9         | 19.5                | -      | -           | -                   |
| 220M/L   | 4.5    | 0.9         | 10.5                | 4.5    | 0.9         | 12.0                | 4.9    | 0.9         | 15.5                | 5.0    | 1.0         | 19.5                | 5.3    | 1.0         | 26.5                |
| 270M/K   | 4.7    | 0.9         | 10.5                | 4.7    | 0.9         | 12.0                | 5.1    | 0.9         | 15.5                | 5.2    | 1.1         | 19.5                | 5.4    | 1.1         | 26.5                |
| 330M/K   | 4.7    | 1.0         | 10.5                | 4.7    | 1.0         | 12.0                | 5.1    | 1.0         | 15.5                | 5.2    | 1.2         | 19.5                | 5.4    | 1.2         | 26.5                |
| 390L/K   | 4.7    | 1.2         | 10.5                | 4.7    | 1.2         | 12.0                | 5.1    | 1.2         | 15.5                | 5.2    | 1.4         | 19.5                | 5.4    | 1.4         | 26.5                |
| 470L/K   | 5.0    | 1.2         | 10.5                | 5.0    | 1.2         | 12.0                | 5.5    | 1.2         | 15.5                | 5.6    | 1.4         | 19.5                | 5.6    | 1.4         | 26.5                |
| 560L/K   | 5.0    | 1.4         | 10.5                | 5.0    | 1.4         | 12.0                | 5.5    | 1.4         | 15.5                | 5.6    | 1.6         | 19.5                | 5.6    | 1.6         | 26.5                |
| 680L/K   | 5.5    | 1.7         | 10.5                | 5.5    | 1.7         | 12.0                | 6.0    | 1.7         | 15.5                | 6.1    | 1.9         | 19.5                | 6.1    | 1.9         | 26.5                |
| 820K     | 3.8    | 0.8         | 10.5                | 3.8    | 0.8         | 12.0                | 4.3    | 0.8         | 15.5                | 4.4    | 1.0         | 19.5                | 5.0    | 1.1         | 26.5                |
| 101K     | 3.9    | 0.8         | 10.5                | 3.9    | 0.8         | 12.0                | 4.4    | 0.8         | 15.5                | 4.5    | 1.0         | 19.5                | 5.1    | 1.2         | 26.5                |
| 121K     | 4.1    | 0.9         | 10.5                | 4.1    | 0.9         | 12.0                | 4.5    | 0.9         | 15.5                | 4.6    | 1.1         | 19.5                | 5.3    | 1.3         | 26.5                |
| 151K     | 4.5    | 1.2         | 10.5                | 4.5    | 1.2         | 12.0                | 4.9    | 1.2         | 15.5                | 5.1    | 1.4         | 19.5                | 5.6    | 1.6         | 26.5                |
| 181K     | 4.1    | 1.0         | 10.5                | 4.1    | 1.0         | 12.0                | 4.5    | 1.0         | 15.5                | 4.7    | 1.2         | 19.5                | 5.2    | 1.4         | 26.5                |
| 201K     | 4.2    | 1.0         | 10.5                | 4.2    | 1.0         | 12.0                | 4.6    | 1.0         | 15.5                | 4.8    | 1.2         | 19.5                | 5.3    | 1.4         | 26.5                |
| 221K     | 4.3    | 1.1         | 10.5                | 4.3    | 1.1         | 12.0                | 4.7    | 1.1         | 15.5                | 4.9    | 1.3         | 19.5                | 5.4    | 1.5         | 26.5                |
| 241K     | 4.4    | 1.1         | 10.5                | 4.4    | 1.3         | 12.0                | 4.8    | 1.3         | 15.5                | 5.0    | 1.5         | 19.5                | 5.5    | 1.7         | 26.5                |
| 271K     | 4.6    | 1.3         | 10.5                | 4.6    | 1.4         | 12.0                | 5.0    | 1.4         | 15.5                | 5.2    | 1.5         | 19.5                | 5.7    | 1.9         | 26.5                |
| 301K     | 4.8    | 1.3         | 10.5                | 4.8    | 1.5         | 12.0                | 5.2    | 1.6         | 15.5                | 5.4    | 1.7         | 19.5                | 5.9    | 2.1         | 26.5                |
| 331K     | 4.9    | 1.3         | 10.5                | 4.9    | 1.5         | 12.0                | 5.3    | 1.6         | 15.5                | 5.5    | 1.7         | 19.5                | 6.0    | 2.1         | 26.5                |
| 361K     | 5.1    | 1.8         | 10.5                | 5.1    | 1.9         | 12.0                | 5.5    | 1.9         | 15.5                | 5.7    | 2.1         | 19.5                | 6.2    | 2.3         | 26.5                |
| 391K     | 5.3    | 2.0         | 11.0                | 5.3    | 2.0         | 12.5                | 5.7    | 2.2         | 16.0                | 5.9    | 2.2         | 20.0                | 6.4    | 2.4         | 26.5                |
| 431K     | 6.1    | 2.1         | 11.0                | 6.1    | 2.0         | 12.5                | 6.5    | 2.5         | 16.0                | 6.7    | 2.5         | 20.0                | 7.2    | 2.7         | 26.5                |
| 471K     | 6.4    | 2.2         | 11.0                | 6.4    | 2.3         | 12.5                | 6.8    | 2.6         | 16.0                | 7.0    | 2.7         | 20.0                | 7.5    | 2.9         | 27.0                |
| 511K     | 6.6    | 2.5         | 11.5                | 6.6    | 2.5         | 13.0                | 7.0    | 3.1         | 16.5                | 7.2    | 3.1         | 20.5                | 7.7    | 3.3         | 27.0                |
| 561K     | 6.9    | 2.8         | 11.5                | 6.9    | 2.8         | 13.0                | 7.3    | 3.4         | 16.5                | 7.5    | 3.4         | 20.5                | 8.0    | 3.6         | 27.0                |
| 621K     | 7.2    | 3.1         | 11.5                | 7.2    | 3.1         | 13.0                | 7.6    | 4.0         | 16.5                | 7.8    | 3.8         | 20.5                | 8.3    | 4.1         | 27.0                |
| 681K     | 7.5    | 3.4         | 11.5                | 7.5    | 3.4         | 13.0                | 8.0    | 4.4         | 16.5                | 8.2    | 4.1         | 20.5                | 8.7    | 4.4         | 27.0                |
| 751K     | 7.9    | 3.7         | 11.5                | 7.9    | 3.7         | 13.0                | 8.4    | 4.4         | 16.5                | 8.6    | 4.3         | 20.5                | 9.1    | 4.5         | 27.0                |
| 781K     | -      | -           | -                   | 8.1    | 3.9         | 13.0                | 8.6    | 4.6         | 16.5                | 8.8    | 4.6         | 20.5                | 9.3    | 4.8         | 27.0                |
| 821K     | -      | -           | -                   | 8.3    | 4.1         | 13.0                | 8.8    | 4.6         | 16.5                | 9.0    | 4.6         | 20.5                | 9.5    | 4.8         | 27.0                |
| 911K     | -      | -           | -                   | -      | -           | -                   | 9.4    | 5.4         | 16.5                | 9.6    | 5.4         | 20.5                | 10.1   | 5.7         | 27.0                |
| 102K     | -      | -           | -                   | -      | -           | -                   | 9.9    | 5.4         | 16.5                | 10.1   | 5.6         | 20.5                | 10.7   | 5.8         | 27.0                |
| 112K     | -      | -           | -                   | -      | -           | -                   | 10.5   | 5.7         | 16.5                | 10.7   | 6.1         | 20.5                | 11.2   | 6.3         | 27.0                |
| 122K     | -      | -           | -                   | -      | -           | -                   | 10.9   | 6.3         | 17                  | 10.9   | 6.7         | 21                  | 11.3   | 6.9         | 27.5                |
| 142K     | -      | -           | -                   | -      | -           | -                   | 11.9   | 7.4         | 17.5                | 11.9   | 7.8         | 21.5                | 12.8   | 8.0         | 28.0                |
| 162K     | -      | -           | -                   | -      | -           | -                   | 13.1   | 8.6         | 18.0                | 13.1   | 9.0         | 22.0                | 13.7   | 9.2         | 28.5                |
| 182K     | -      | -           | -                   | -      | -           | -                   | 14.3   | 9.8         | 18.5                | 14.3   | 10.2        | 22.5                | 14.7   | 10.4        | 29.0                |