

# Inductors & Filters

## TNR V-Series Metal Oxide Varistors

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)

| Part No. | Product No. | Manufacturer     | Description                 | Max. Vm(ac) | Max. Vm(dc) | Energy (2ms)(J) | Rated Watt.(W) | Max. Clamping V/A | Varistor Volt.(VImA) |
|----------|-------------|------------------|-----------------------------|-------------|-------------|-----------------|----------------|-------------------|----------------------|
| 50198    | TNR14V270K  | NIPPON CHEMI-CON | Metal_Oxide_Varistors_TNR_V | 17VACrms    | 22VDC       | 17J             | 0.2W           | 53V/20A           | 27                   |
| 50196    | TNR14V431K  | NIPPON CHEMI-CON | Metal_Oxide_Varistors_TNR_V | 275VACrms   | 350VDC      | 110J            | 0.6W           | 715V/50A          | 430                  |
| 50200    | TNR14V471K  | NIPPON CHEMI-CON | Metal_Oxide_Varistors_TNR_V | 300VACrms   | 385VDC      | 125J            | 0.6W           | 775V/50A          | 470                  |
| 50197    | TNR14V680K  | NIPPON CHEMI-CON | Metal_Oxide_Varistors_TNR_V | 40VACrms    | 55VDC       | 44J             | 0.2W           | 135V/20A          | 68                   |
| 50194    | TNR20V391K  | NIPPON CHEMI-CON | Metal_Oxide_Varistors_TNR_V | 250VACrms   | 320VDC      | 195 J           | 1W             | 650V/100A         | 390                  |
| 50193    | TNR20V431K  | NIPPON CHEMI-CON | Metal_Oxide_Varistors_TNR_V | 275VACrms   | 350VDC      | 215 J           | 1W             | 715V/100A         | 430                  |

## CNR Series Zinc Oxide Varistors

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### FEATURES:

- Fast response
- Excellent voltage ratio
- High stabilization for circuit voltage
- Unparalleled absorption for transient voltage characteristics
- Bilateral and symmetrical V-I characteristics curve

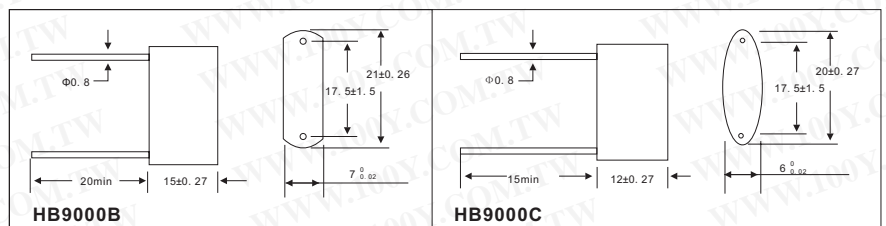
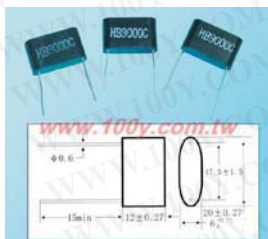
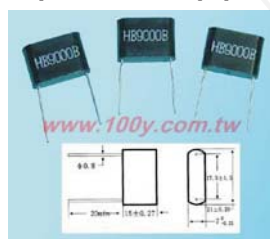
### APPLICATIONS

- Surge protection in consumer electronics
  - industrial electronics
  - telephone and telecommunication systems
  - automobile equipments
  - measuring and controller systems
  - electronic home applications
- Absorption of switching surge from various kinds of relays and electro-magnetic valves.
- Electrostatic discharge an spike noise suppression
- Protection of various kinds of transistors, diodes, ICs, thyristors, triac semiconductors, and etc

| Part No. | Product No. | Description          | Energy (2ms)(J) | Max. Vm(ac) | Max. Vm(dc) | Max. Clamping V/A | Rated Watt.(W) | Varistor Volt.(VImA) |
|----------|-------------|----------------------|-----------------|-------------|-------------|-------------------|----------------|----------------------|
| 41522    | CNR-05D101K | METAL OXIDE VARISTOR | 3.0             | 60V         | 85V         | 175V              | 0.10W          | 100Vdc               |
| 41525    | CNR-05D560K | METAL OXIDE VARISTOR | 1.3             | 35V         | 45V         | 123V              | 0.01W          | 56Vdc                |
| 41526    | CNR-07D151K | METAL OXIDE VARISTOR | 9.7             | 95V         | 125V        | 250V              | 0.25W          | 150Vdc               |
| 41527    | CNR-07D180K | METAL OXIDE VARISTOR | 0.9             | 11V         | 14V         | 42V               | 0.02W          | 18Vdc                |
| 41528    | CNR-07D181K | METAL OXIDE VARISTOR | 11.7            | 115V        | 150V        | 180Vdc            | 0.25W          | 180Vdc               |
| 41529    | CNR-07D201K | METAL OXIDE VARISTOR | 13.0            | 130V        | 170V        | 340V              | 0.25W          | 170V                 |
| 41530    | CNR-07D220K | METAL OXIDE VARISTOR | 1.1             | 14V         | 18V         | 47V               | 0.02W          | 22Vdc                |
| 41531    | CNR-07D271K | METAL OXIDE VARISTOR | 18.0            | 175V        | 225V        | 455V              | 0.25W          | 270Vdc               |
| 41533    | CNR-07D331K | METAL OXIDE VARISTOR | 25.0            | 210V        | 275V        | 550V              | 0.25W          | 330Vdc               |
| 41534    | CNR-07D361K | METAL OXIDE VARISTOR | 25.0            | 230V        | 230V        | 595V              | 0.25W          | 230Vdc               |
| 41540    | CNR-07D431K | METAL OXIDE VARISTOR | 28.0            | 275V        | 350V        | 710V              | 0.25W          | 430Vdc               |
| 41542    | CNR-07D431K | METAL OXIDE VARISTOR | 2.5             | 30V         | 38V         | 52V               | 0.02W          | 423Vdc               |
| 41543    | CNR-07D471K | METAL OXIDE VARISTOR | 30.0            | 300V        | 385V        | 775V              | 0.25W          | 470Vdc               |
| 41544    | CNR-07D680K | METAL OXIDE VARISTOR | 3.6             | 40V         | 56V         | 75V               | 0.02W          | 61Vdc                |
| 41545    | CNR-07D820K | METAL OXIDE VARISTOR | 5.5             | 50V         | 65V         | 135V              | 0.25W          | 82V                  |
| 41551    | CNR-10D12K  | METAL OXIDE VARISTOR | 7.8             | 75V         | 100V        | 200V              | 0.25W          | 120Vdc               |
| 41553    | CNR-10K361K | METAL OXIDE VARISTOR | 47.0            | 230V        | 230V        | 595V              | 0.40W          | 360Vdc               |
| 41554    | CNR-10D431K | METAL OXIDE VARISTOR | 65.0            | 275V        | 350V        | 710V              | 0.40W          | 430Vdc               |
| 41555    | CNR-10D681K | METAL OXIDE VARISTOR | 70.0            | 420V        | 560V        | 1120V             | 0.40W          | 680Vdc               |
| 41556    | CNR-14D220K | METAL OXIDE VARISTOR | 5.0             | 14V         | 18V         | 43V               | 0.10W          | 22Vdc                |
| 41558    | CNR-14D560K | METAL OXIDE VARISTOR | 11.0            | 35V         | 45V         | 62V               | 0.10W          | 56Vdc                |
| 41560    | CNR-14D821K | METAL OXIDE VARISTOR | 157.0           | 510V        | 670V        | 1355V             | 0.60W          | 820V                 |
| 41561    | CNR-20D221K | METAL OXIDE VARISTOR | 60.0            | 140V        | 180V        | 360V              | 1.0W           | 220Vdc               |
| 41563    | CNR-20D271K | METAL OXIDE VARISTOR | 127.0           | 175V        | 225V        | 455V              | 1W             | 270Vdc               |
| 41565    | CNR-20D471K | METAL OXIDE VARISTOR | 220.0           | 300V        | 385V        | 775V              | 1.0W           | 470Vdc               |

## Spark Suppressor

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



HB9000B

HB9000C

| Part No. | Product No. | Description      |
|----------|-------------|------------------|
| 15596    | HB9000B     | Spark Suppressor |
| 15597    | HB9000C     | Spark Suppressor |

