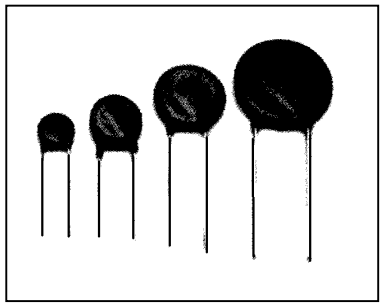
TRANSIENT/SURGE ABSORBER
TRANSIENT VOLTAGE SURGE SUPPRESSORS

Part Number Description (for order booking)

Material Type	Element Diameter	Varistor Voltage	Tolerance
(1)	(2)	(3)	(4)

Example: CNR 05D 220 K



(1) Material Type:

CNR = Metal Oxide Varistor

(2) Element Diameter:

05D = ϕ 5mm
07D = ϕ 7mm
10D = ϕ 10mm
14D = ϕ 14mm
20D = ϕ 20mm

(3) Varistor Voltage: in Volts (V), DC

Example: 220 = 22V
221 = 220V

(4) Tolerance:

K = ± 10%

Related Standards:

UL 1414, UL 1449(2nd Edition), CSA, VDE

FEATURES:

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

APPLICATION:

- Surge Protection in consumer electronics and industrial electronics
- Absorption of switching surge from various kinds of relays and electro-magnetic valves
- Electrostatic discharge and spike noise suppression
- Protection of various kinds of transistors, diodes, ICs, thyristors, triac semiconductors and etc.
- Automobile control system such as transistorized ignition system and electronic fuel injection system and etc.

ITEM SELECTION GUIDANCE:

1. Determine the necessary steady-state voltage (working voltage).
2. Establish the transient energy absorbed by the varistor.
3. Calculate the peak transient current through the varistor.
4. Determine power dissipation requirement.
5. Select an item to provide the required voltage-clampling characteristics.