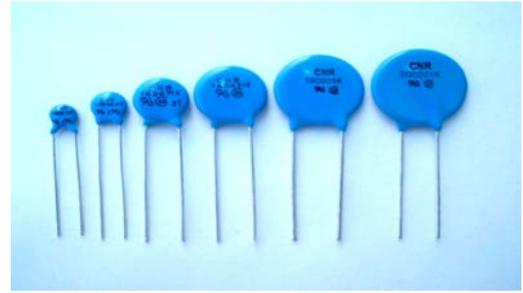


## CeNtRa Varistor

Varistor are voltage dependent, nonlinear device which have an electrical behavior similar to back-to-back zener diodes.

CNR series zinc oxide varistor are nonlinear resistors, consisting main of zinc oxide and several kinds of metal oxide additive.

They are bilateral and symmetrical V-I characteristics curve and unparalleled large peak current capability are used for absorption of transient voltage, suppression of pulse noise and circuit voltage stabilization.



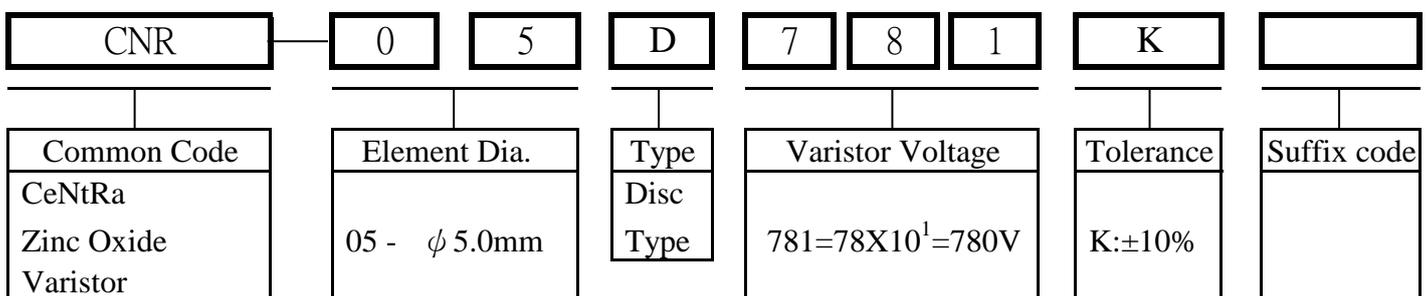
### Applications

- Surge Protection in consumer electronics
  - industrial electronics
  - telephone and telecommunication systems
  - automobile equipments
  - measuring and controller systems
  - electronic home appliances
  - gas and petroleum appliances
- 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.
- Automobile control system such as transistorized ignition system and electronic fuel injection system, and etc.

### Features

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

### Explanation of Part Numbers

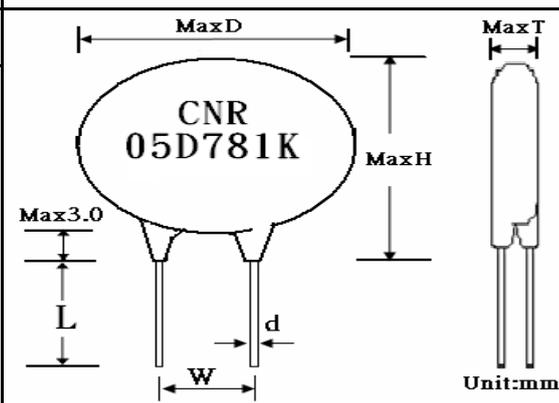


Space:Standard Straight lead/Bulk Packing  
 TRS: Straight lead/Tape&Reel Packing  
 TRK: Type I Crimped lead/Tape&Reel Packing  
 TRI: Type II Crimped lead/Tape&Reel Packing  
 TRH: Type III Crimped lead/Tape&Reel Packing  
 BTS: Straight lead/Flat Box Packing  
 BTK: Type I lead/Flat Box Packing

BTI: Type II lead/Flat Box packing  
 BTH: Type III lead/Flat Box Packing  
 TTS: Straight Cut Lead /Bulk Packing  
 TTK: Type I Cut Lead /Bulk Packing  
 TTI: Type II Cut Lead /Bulk Packing  
 TTH: Type III Cut Lead /Bulk Packing

<b>SPECIFICATION</b>	
PART No.	CNR-05D781K
ISO 9001	ISO 14001

## 1. OUTLINE

1.1	APPEARANCE	WITHOUT DIRT & CRACK			
1.2	DIMENSIONS	 <p>* Marking : Laser Marking</p>	D( Max)	7.5	
ISO 9001	44 100 092277		H(Max)	10.0	
ISO 14001	44 104 092274		T(Max)	5.8	
			W	5.0±1.0	
			d	0.6±0.05	
			L(Min)	25.0	
			<b>CP/EI</b>		

Enclosure Non-Flammable Epoxy Resin (UL 94V-0), Blue

## 2. ELECTRICAL PARAMETERS

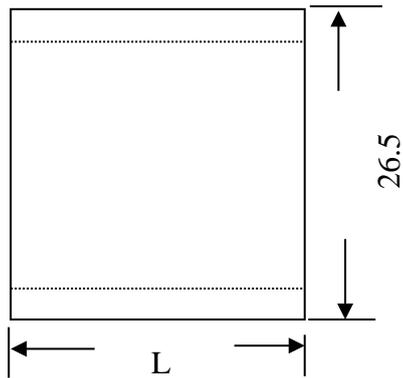
2.1	Max ALLOWABLE VOLTAGE	AC : 485V ; DC :640V	
2.2	VARISTOR VOLTAGE	V0.1mA : 702V-858V	AT 0.1mA DC
2.3	RATED WATTAGE	0.10W	
2.4	Max CLAMPING VOLTAGE	< 1290V ( AT 5A )	WAVE FORM 8*20 μ S
2.5	WITHSTANDING SURGE CURRENT	1 TIME : 400A	WAVE FORM 8*20 μ S
		2 TIMES : 200A	WAVE FORM 8*20 μ S
2.6	Max ENERGY	15.0 JOULES	WAVE FORM 10*1000 μ S
2.7	TEMP COEFFICIENT OF VARISTOR VOLTAGE	< -0.05 % / °C	
2.8	LEAKAGE CURRENT	<20 μ A	AT 670 V (DC)
2.9	IMPULSE LIFE	<±10% (V0.1mA)	WAVE FORM 8*20 μ S
2.10	STORAGE TEMPERATURE RANGE	-40°C~ +125°C	
2.11	OPERATION AMBIENT TEMPERATURE RANGE	-40°C~ +85°C	



## Packing information

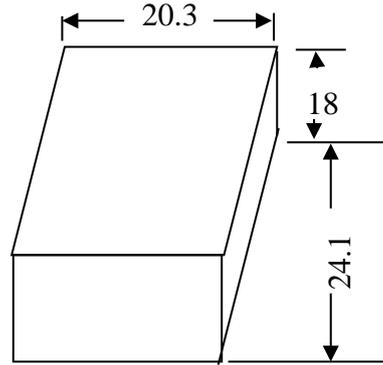
Part No.	Min. Q'ty(pcs)/Bags	Q'ty(pcs)/Inner Box	Min. Q'ty(pcs)/Carton	Weight/Carton
CNR-05D781K	1000	10000	20000	Less than 20Kg

Packing Bag unit:cm



L	05D to 10D Series	10.5
	14D to 20D Series	14.5

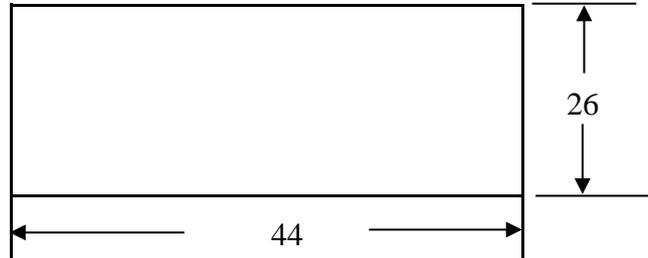
Inner box dimension



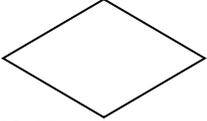
Label

CNR Zinc Oxide Varistor		
Part No.		Inspected by
Quantity		
Lot No.		

Carton Dimensions (Height 21.5cm)



Mark



P/O No:  
C/No :  
Made in Taiwan