



ZEONICS SYSTECH
DEFENCE & AEROSPACE ENGINEERS (P) LTD.



High Voltage & High Power Resistors



High Voltage Tandem Load

Proudly Made in INDIA





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High Power Crowbar Resistor Bank

These are thick film coated resistors or bulk ceramic resistors which are produced for manufacturing pulse power equipment. In pulse power equipment, we require least inductance, hence wire wound resistors and similar resistors cannot be used for these applications.

Applications

The resistors are used for all sorts of Pulse Discharge Circuits where one requires very low inductance and does not want any ringing in the circuit. Hence these resistors have good energy absorption characteristics also.

We can also give gas filled resistors on special request.

Advantages

Since these resistors are quite robust with solid ceramic construction hence they offer good life characteristics, care should be taken that the greatest advantage can be brought or achieved from this resistors by ensuring that the film of the resistor does not get damaged hence during time of handling one has to be very careful for handling specially high value resistors that the surfaces are clean, free of dust, grit and oil.



High Power Film Resistor

Specifications

For High Voltage Tandem Load,

1. Working voltage : 100kVDC or 300kV DC
2. Power : 100watts/ 300watts/1000watts
3. Application : Series / Parallel Connection
4. Type No : Z/40/64

For Crowbar Resistor Load,

1. Resistance Value: 1k Ω & 8 Nos. in parallel
2. Maximum Energy : 50kJ, 5 Minutes cooling 5pps
3. Application : As a crowbar resistor for large systems
4. Weight : Assembly 190kgs
5. Type : Non Inductive Strip line wound
6. Type No. : ZHS/01/50

For High Power Film Resistor, typically the dimensions are in the region of 25 to 35mm diameter and length of 150, 200 and 300mm. Resistor bodies are of different sizes and shapes & are available for energy of upto 25kJ per module.

Installation requirements

All the resistors need to be thoroughly cleaned by NC thinner or similar Acetone before assembly. Care should be taken that none of these resistors should have any oil or grease content on the film as they will not show the same value and during Pulse Power they may get damaged. They can be Air, gas or Oil mounted.

Types available

We have standardized on 150mm, 200mm and 300mm sizes at the moment which is 150 watts, 200 watts and 300 watts and all sets of such to go in kilowatts.

Testing

The resistors are tested for resistance value and for also High Voltage applications and typically 150W resistors are good for voltages of up to 30kV, 200W for 50kV and 300W can withstand 150kV pulse or 50kV DC.

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