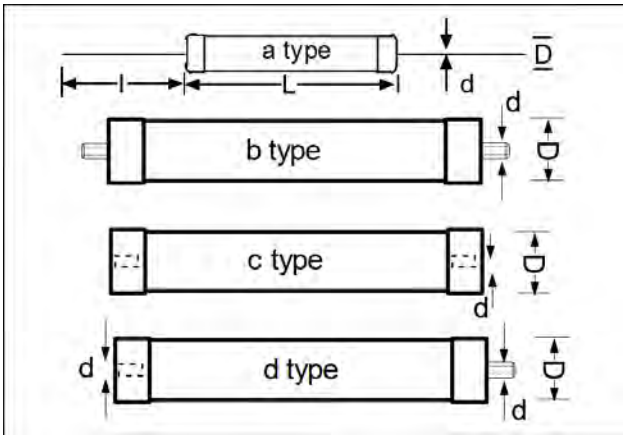
High Voltage Resistors DHVR – Non-Inductive



- it is vitreous Enamel coating for better resistor protection
- Can withstand 3-5 times the rated power for short time
- Standard resistor rated power : 0.5W - 500W
- Standard resistance range : 10k ohm - 100G ohm
- Tolerance : +/-1%, +/-2%, +/-5% and +/-10%
- Surge voltage up to 200kV
- Support High Pulse Current requirement
- Rated temperature range : -55C - 70C
- If Resistor will be immersed in high voltage insulation oil or SF6, please let us know. We support this requirement.

Applications :

High Voltage divider / Measuring resistor / Electrostatics / Over voltage protection / Capacitor Discharge

Please provide following working conditions :

- Resistance value and Resistor Power
- AC or DC voltage, if there is Surge Voltage, please tell the peak to peak voltage range, duty cycle and repetition rate.
- Surge Voltage, if it is larger than the rated voltage SQR(Watt * Ohm)
- for AC and Surge Voltage, can you tell the estimated duty cycle, repetition rate or frequency

The above conditions can help us offer suitable High Voltage Resistor for your applications.

DHVR type **:** For Resistor power that not listed above, please contact us for details.

Rated Power Wattage 70C	Resistor package type	Dimensions in mm *				Resistance range ohm	Temperature Coefficient ppm/C	Resistance Tolerance	Max. Pulse Voltage KV ###
		Length L	Diameter D	Lead length	Lead diameter				
0.5W	a	7	2.5	30+/-1	0.6	10k~50M	<= 400	+/-1% +/-2% +/-5% +/-10%	0.35
1W	a	13+/-1	4.5		0.8	10k~100M			2.5
2W	a	17+/-1	6.5		0.8	10k~100M			4.0
3W	a	25+/-1	8		0.8	10k~500M			4.8
4W	a	35	8		0.8	10k~500M			10
5W	a	37 / 42 +/-1	11		1	100k~3G			8 / 10
10W	a	71 / 84 +/-2	11 / 12		1	5k~10G			25 / 32
20W	a	103 / 114 +/-2	11 / 12		1	5k~20G			40 / 45
25W	a	126 / 138 +/-2	11 / 12		1	5k~40G			50 / 55
30W	b c d	90+/-2	16	-	M5	5k~5G	+/-150		25
40W		100+/-2	27	-	M5 / 6	5k~10G			30
50W		133+/-2	27			10k~40G			45
60W		160+/-2	27			20k~60G			58
70W		180+/-2	27			20k~60G			62
80W		200+/-2	27			50k~60G			68
90W		210+/-2	27			50k~75G			82
100W		260 / 150 +/-2	27 / 35			50k~85G	+/-150		100
150W		310/ 210+/-2 / 154+/-2	27 / 28 / 60	-	M5 / 6 / 8	50k~100G	+/-250		130 / 55
200W		260+/-2 / 210+/-2	28 / 42	-	M8		+/-400		82
250W		270+/-2 / 180+/-2	42 / 60	-	M8				110 / 62
300W		310+/-2	37	-	M8				130
400W		420 +/-2	42	-	M8				180
500W		540 / 360 +/-2	42 / 62	-	M8 / 10	50k~100G			240

* Resistor sizes might be vary depend on pulse voltage, load current, pulse rate and ambient temperature etc.

** We support lower Temperature Coefficient requirement

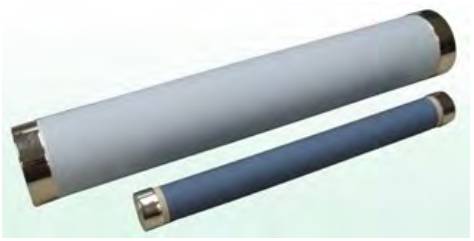
For a given rated power resistor, the actual max. pulse voltage will depend on the rated resistance value, pulse width, duty cycle, number of pulses per second/minute, ambient temperature, humidity and resistor surface cleanness.

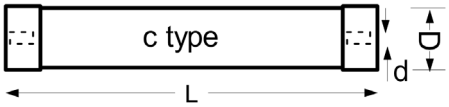
For a given rated power Resistor, the actual max. pulse voltage is depended on the rated resistance value.
Support lower Temperature Coefficient requirement.

Part Number :

Series	+ type	+ Rated Power	+ Resistance Value (ohm)	+ Resistance Tolerance
DHVR	a	1 - 500W	10k ohm= 10KR	F = +/-1%
	b		100k ohm= 100kR	G = +/-2%
	c		1M ohm = 1MR	J = +/-5%
	d		100G ohm = 100GR	K= +/-10%

High Voltage Pulse Power Resistors DHVRC – Non-Inductive





This series is for High Voltage, High Frequency, Pulse Energy and Pulse Current applications.
Resistance range : 1 ohm to 5k ohm
Tolerance : +/-1%, +/-2%, +/-5% and +/-10%
Temperature coefficient : +/-50ppm/C, +/-200ppm/C
Support lower Temperature Coefficient requirement.
Resistor package type : c
The max. Voltage depends on the rated resistance value.
For a given rated power, the actual max. pulse voltage is depended on the rated resistance value.

DHVRC type :

Rated Power Wattage 70C	Maximum Pulse Voltage kV #	Dimensions D x L in mm *
20W	0.5	25 x 50
30W	25	25 x 70
50W	40	25 x 125
60W	52	25 x 150
70W	60	25 x 172
80W	78	25 x 200
100W	100	25 x 250
150W	125	25 x 300
170W	55	60 x 154
200W	82	60 x 180
250W	180	42 x 270
300W	125	form by two 150W resistors
500W	200	form by two 250W resistors

* Resistor sizes might be vary depend on pulse voltage, load current, pulse rate and ambient temperature etc.
# For a given rated power resistor, the actual max. pulse voltage will depend on the rated resistance value, pulse width, duty cycle, number of pulses per second/minute and ambient temperature, humidity and resistor surface cleanness.
For Resistor power that not listed above, please contact us for details.

Part Number :
Series + Rated Power + Resistance Value (ohm) + Resistance Tolerance

DHVRC	1 - 500W	5 ohm = 5R	J = +/-5%
		10 ohm = 10R	K= +/-10%
		100 ohm = 100R	
		1k ohm = 1kR	