

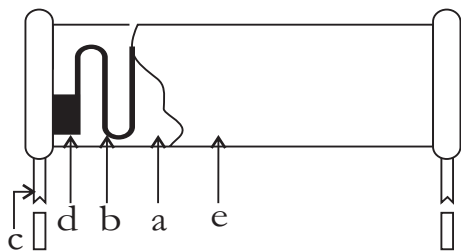
● Features

- I No Inductance
- II Excellent Tolerance
- III Wider resistance values
- IV High Voltage、High Power

● Application

- I Impulse voltage generator
- II Electric-arc furnace damping
- III Pulse modulator, radar pulse opens the network
- IV Arc suppression circuit of capacitor, high voltage buffer circuit
- V X-ray/head portrait equipment and EMI/ lightning suppression

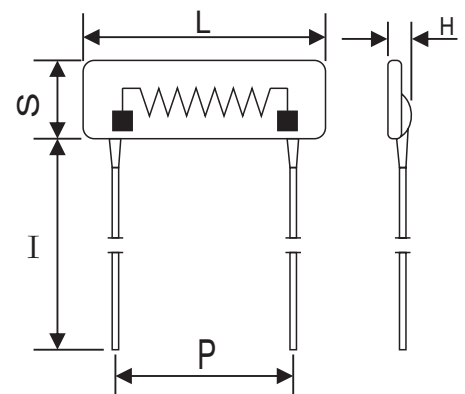
● Construction



a	Ceramic core
b	Glazed resistive film
c	Tinned copper lead wire or serew
d	Silver Palladium Pole
e	Protective coating

● Dimensions

Type	Power	Dimensions(mm)					
		L±1.0	S±1.0	H±0.5	P±1.5	I±3.0	d±0.05
HVE1/8W	1/8W	8	3.5	2.5	5	24	0.56
HVE1/4W	1/4W	10	5	2.5	6	24	0.56
HVE1/3W	1/3W	22	4	2.5	18	24	0.56
HVE1/2W	1/2W	25	5	2.5	21	24	0.56
HVE0.75W	3/4W	35	5	2.5	30	24	0.56
HVE1.0W	1.0W	41	5	2.5	36	42	0.56
HVE1.2W	1.2W	25	10	2.5	21	30	0.56
HVE1.5W	1.5W	30	8	2.5	26	30	0.56
HVE2W	2W	33	8	2.5	28	35	0.56
HVE2.5W	2.5W	38	10	3	34	40	0.8
HVE3W	3W	45	10	3	42	45	0.8
HVE3.5W	3.5W	50	10	3	46	45	0.8
HVE3.5W	3.5W	30	15	3	26	35	0.8
HVE4W	4W	60	10	3	56	55	0.8
HVE10W	10W	80	20	4	76	60	0.8
HVE12W	12W	97	23	4	93	80	0.8
HVE15W	15W	100	35	4	96	80	1
HVE20W	20W	100	48	4	96	80	1



Special products of the power and size, please contact our engineers kh@khxcom.com

Ordering Information

Example:

HVE	18	J	R100
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1)Type: HVE SERIES

(2)Power Rating: 18=1/8W,14=1/4W,12=1/2W,1=1W,2=2W,3=3W,100=100W

(3)Tolerance: F=±1%,G=±2%,J=±5%,K=±10%

(4)Resistance Value:100R0=100Ω,1M0=1MΩ

Reference Standards

JISC 5201-1

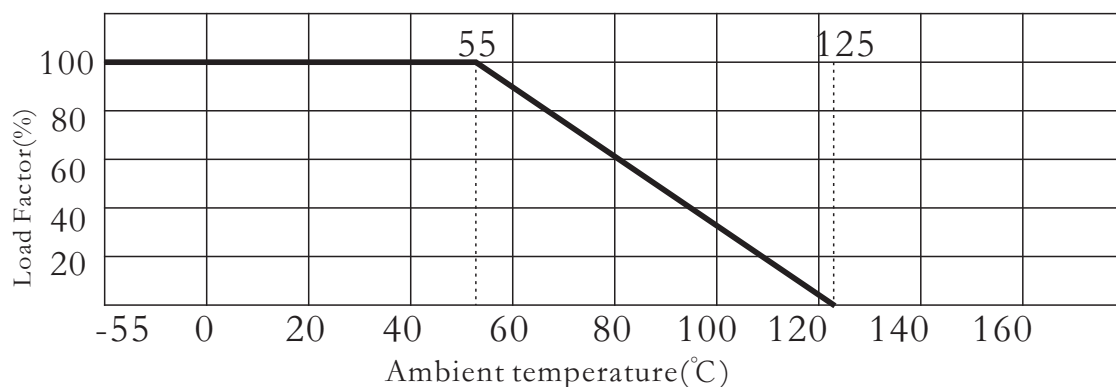
Applications And Ratings

Rated Power (W)	Resistance Range(Ω)	T.C.R (PPM/°C)	Maximum Working Voltage(KV)
HVE1/8W	100-4.7KM	≤200	2
HVE1/4W	100-10KM	≤200	4
HVE1/3W	100-10KM	≤200	4
HVE1/2W	100-10KM	≤200	10
HVE0.75W	100-10KM	≤200	15
HVE1.0W	100-10KM	≤200	15
HVE1.2W	100-10KM	≤200	15
HVE1.5W	100-10KM	≤200	15
HVE2W	100-10KM	≤200	15
HVE2.5W	100-10KM	≤200	20
HVE3W	100-10KM	≤200	20
HVE3.5W	100-10KM	≤200	20
HVE3.5W	100-10KM	≤200	25
HVE4W	100-100KM	≤300	25
HVE10W	100-200KM	≤300	25
HVE12W	100-200KM	≤300	30
HVE15W	100-200KM	≤300	30
HVE20W	100-200KM	≤300	30

Note:

- I Epoxy resin coating can be extended to 2mm down leads.
- II E:Max voltage applied when the resistor is used in silicon oil or sealed with epoxy resin.
- III Resistance(R), Voltage(E) and Power(P) are determined by $E=\sqrt{PR}$ (E, P must be less than date in the list above.)

Derating Curve



● Non-inductive

HVE use non-inductive design, special glazed film, distribute itself like the Great Wall $\square\square\square\square\square$, this high efficiency and non-inductive design will not cut any advantages of the resistor's function. It is perfect for products which request high frequency. Inductor value keeps at $0.1\mu\text{H}\sim 1\mu\text{H}$



● Performance

TEST ITEM	SPECIFICATIONS
Resistance Tolerance	$\pm 1\%$ $\pm 2\%$ $\pm 5\%$ $\pm 10\%$ tolerance to 0.5% on special order
Temperature Coefficient	200ppm/ $^{\circ}\text{C}$ (Referenced to $+25^{\circ}\text{C}$, $R\Delta$ taken at $+125^{\circ}\text{C}$ and -55°C)
Load life	$+125^{\circ}\text{C}$, 1000 hours $\Delta R \leq 0.5\%$
Insulate resistance	$\geq 1000\text{M}\Omega$
Encapsulation	High temperature silicone conformal
Overload	2.5 Rated power (≤ 1.5 Max. operating voltage) 5s $\Delta R \leq 0.5\%$
Thermal shock	$\Delta R \leq 0.25\%$
Moisture resistance	$\Delta R \leq 0.4\%$
Temperature	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$