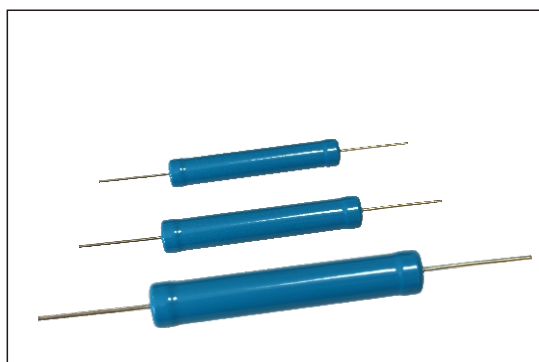
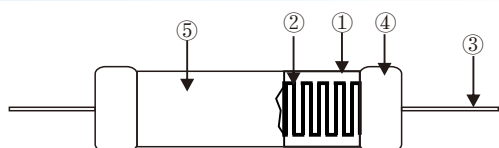




● Feature

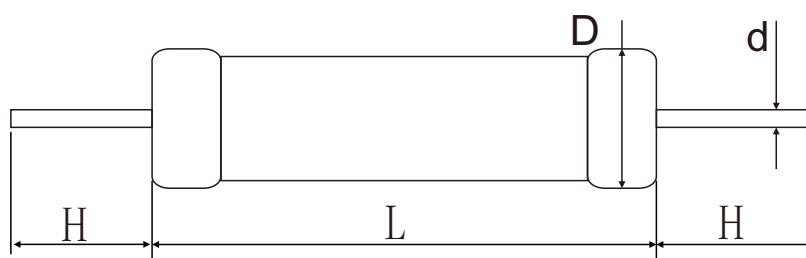
- I HSP series non-inductive high voltage resistors use high quality ceramic substrates, have the characteristics of high mechanical strength, high load power, high precision and good temperature coefficient.
- II It has the characteristics of small size, high voltage resistance, wide resistance range, etc., and is widely used in various electronic devices.
- III The resistor film layer adopts a special design to pursue the largest possible effective resistor area, improve the reliability and pulse tolerance of the resistor, and has the characteristics of strong load moisture resistance, high temperature resistance, strong electrical pulse resistance and high long-term stability.

● Construction



- ①Ceramic core ②Glazed resistive film ③Lead ④Silver plated brass cap ⑤Protective coating

● Dimensions



Type	Power @125℃	Resistance values (Ω)	Dimensions(mm)			
			L±1	D±0.5	H±3	d±0.1
HSP17	3W	1-200M	17	6.5	38	0.8
HSP36	5W	1-1G	36	11	38	1.0
HSP50	7W	1-1G	50	11	38	1.0
HSP70	10W	1-1G	70	11	38	1.0
HSP100	12W	1-1G	100	11	38	1.0

● Power And Resistance etc

Type	Power @125℃	Resistance values (Ω)	TCR (PPM/℃)	Max. Power Voltage(KV)	Resistance tolerance
HSP17	3W	1-200M	±100ppm/℃	3KV	B=±0.1%
HSP36	5W	1-1G		7KV	C=±0.25%
HSP50	7W	1-1G		10KV	D=±0.5%
HSP70	10W	1-1G		15KV	F=±1.0%
HSP100	12W	1-1G		20KV	J=±5%
					K=±10%

● Ordering Information

Example:

HSP	2W	F	50M	50
(1)	(2)	(3)	(4)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance	TCR

(1)Type: HSP ERIES

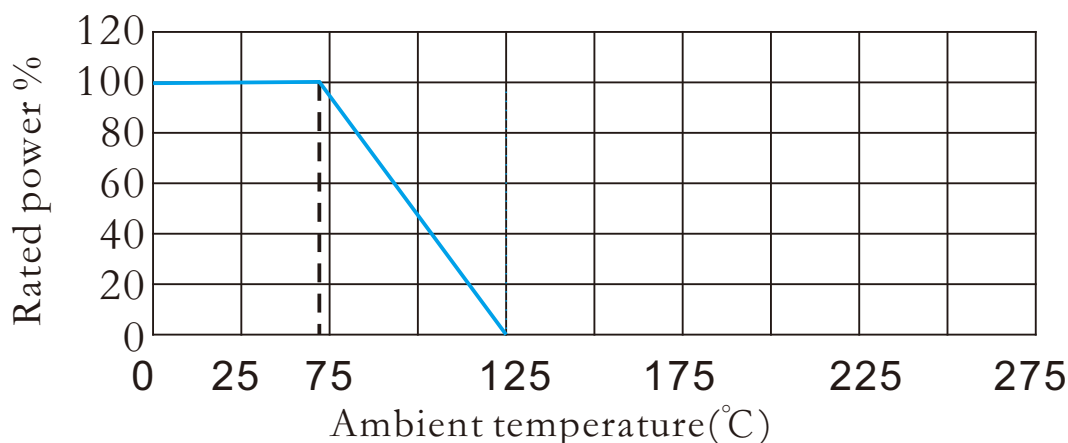
(2)Power Rating: 17=3W、36=5W、50=7W、70=10W、100=12W

(3)Tolerance: B=±0.1%、C=±0.25%、D=±0.5%、F=±1.0%、J=±5%、K=±10%

(4)Resistance Value:0R10=0.1Ω、1R00=1Ω、30MR0=30MΩ

(5)TCR: ±100ppm/°C

● Derating Curve



● Performance

Test Item	Specifications
Resistance range:	1-1GΩ beyond the resistance range can be negotiated for ordering
Resistance accuracy:	±0.1% ~ ±10%
Temperature coefficient range:	10Ω above ±100ppm/°C (25°C ~ 105°C) other requirements can be negotiated for ordering
Using temperature range:	-55°C ~ +125°C
Insulation resistance:	Minimum 10GΩ
Overload characteristics:	5 times rated power, but not more than 1.5 times the maximum continuous working voltage, for 5 seconds, $\Delta R \leq \pm 0.5\%R$
Thermal shock characteristics:	MIL-Std-202, Method 107, Condition C, $R \leq \pm 0.50\%R$
Power durability:	Rated power 1000 hours, $\Delta R \leq \pm 0.50\%R$ or $\Delta R \leq \pm 0.5\Omega$.
Moisture resistance characteristics:	MIL-Std-202, Method 106, $R \leq \pm 0.40\%R$.
Coating layer:	Silicone resin or epoxy resin
Lead material:	Anti-oxidation tinned copper wire