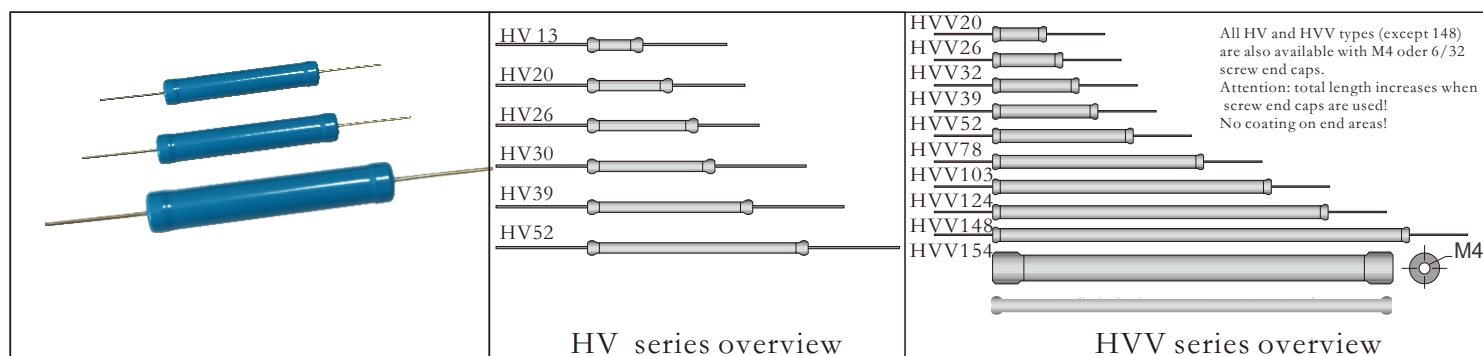
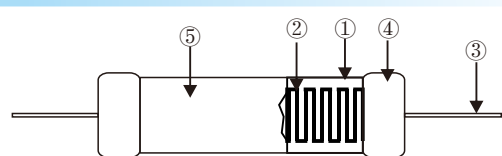




Feature

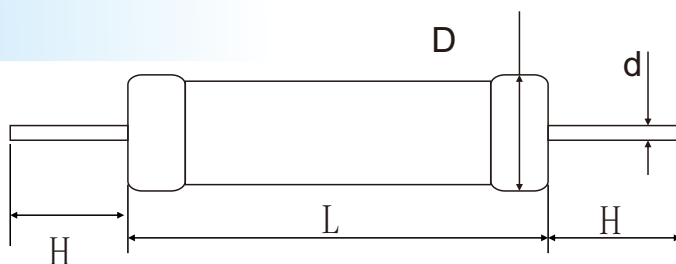
- I up to 48 kV operating voltage
- II Non-Inductive design
- III ROHS compliant
- IV Voltages up to 60% higher than the values

Construction



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

Dimensions



Type	Power			Resistance values (Ω)	Dimensions(mm)			
	@25°C	@75°C	@125°C		L $\pm$ 1	D $\pm$ 0.5	H $\pm$ 3	d $\pm$ 0.1
HV 13	1.0W	1.0W	0.6W	100 Ω -500M	13.3	4.2	38	0.6
HV20	1.5W	1.5W	1.0W	200 Ω -1G	19.7	4.2	38	0.6
HV26	1.9W	1.9W	1.25W	300 Ω -2G	26.2	4.2	38	0.6
HV30	2.5W	2.5W	1.5W	500 Ω -3G	32.3	4.2	38	0.6
HV39	3.0W	3.0W	2.0W	700 Ω -5G	39.4	4.2	38	0.6
HV52	3.3W	3.3W	1.5W	400 Ω -2G	49.5	4.2	38	0.8
HVV20	2.5W	2.5W	1.5W	200 Ω -1G	20.2	8.2	38	1.0
HVV26	3.7W	3.7W	2.5W	250 Ω -1G	26.9	8.2	38	1.0
HVV32	4.5W	4.5W	3.0W	300 Ω -1.5G	33.0	8.2	38	1.0
HVV39	5.2W	5.2W	3.5W	400 Ω -1.5G	39.5	8.2	38	1.0
HVV52	7.5W	7.5W	5.0W	500 Ω -2.5G	52.1	8.2	38	1.0
HVV78	11W	11W	7.5W	900 Ω -4G	77.7	8.2	38	1.0
HVV103	12W	12W	8.0W	1K2-2G	102.9	8.2	38	1.0
HVV124	15W	15W	10W	1K5-8G	123.7	8.2	38	1.0
HVV148	30W	30W	20W	10K-10G	155.0	16	38	
HVV154	20W	20W	15W	2K-10G	153.7	8.2	38	1.0

Ordering Information

Example:

HV	1W	F	50M	TCR
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	Resistance	ppm/°C

(1)Type: HV HVV SERIES

(2)Power Rating: 13=1W、20=1.5W、26=1.9W、30=2.5W、39=3W.....

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

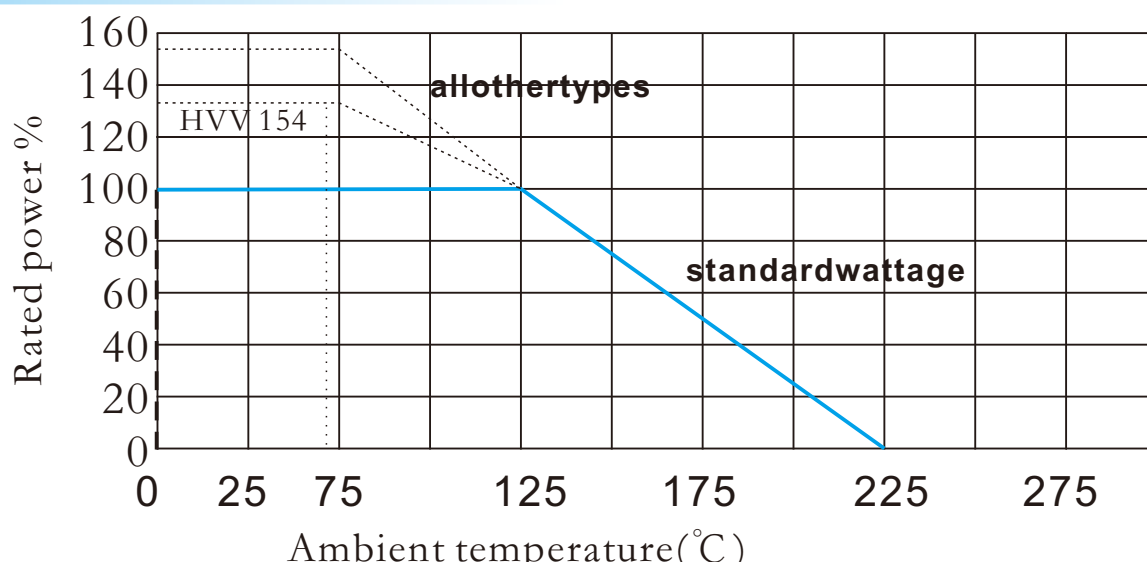
(4)Resistance Value:50M=50M、100M=100M、1G=1G

(5)TCR: ±80ppm/°C

Power And Resistance etc

Type	Power			Resistance values (Ω)	TCR (PPM/°C)	Max. Power Voltage(KV)	Max. operating temperature (°C)	Resistance tolerance
	@25°C	@75°C	@125°C					
HV 13	1.0W	1.0W	0.6W	100Ω-500M	±80 ppm/°C (at +85°C ref. to +25°C)	1.5KV	225°C	F(±1%) G(±2%) J(±5%) K(±10%)
HV20	1.5W	1.5W	1.0W	200Ω-1G		2KV		
HV26	1.9W	1.9W	1.25W	300Ω-2G		4KV		
HV30	2.5W	2.5W	1.5W	500Ω-3G		5KV		
HV39	3.0W	3.0W	2.0W	700Ω-5G		6KV		
HV52	3.3W	3.3W	1.5W	400Ω-2G		10KV		
HVV20	2.5W	2.5W	1.5W	200Ω-1G		3KV		
HVV26	3.7W	3.7W	2.5W	250Ω-1G		4KV		
HVV32	4.5W	4.5W	3.0W	300Ω-1.5G		5KV		
HVV39	5.2W	5.2W	3.5W	400Ω-1.5G		8KV		
HVV52	7.5W	7.5W	5.0W	500Ω-2.5G		10KV		
HVV78	11W	11W	7.5W	900Ω-4G		15KV		
HVV103	12W	12W	8.0W	1K2-2G		20KV		
HVV124	15W	15W	10W	1K5-8G		25KV		
HVV148	30W	30W	20W	10K-10G		45KV		
HVV154	20W	20W	15W	2K-10G		30KV		

Derating Curve



● Performance

Test Item	Specifications
Resistance tolerance	$100\ \Omega \leq 10\ \text{G}\Omega$ (see model specifications page 2)
Temperature coefficient	$\pm 1\%$ to $\pm 10\%$ standard down to $\pm 0.1\%$ on special request for limited ohmic values
Max. operating temperature	$\pm 80\ \text{ppm}/^\circ\text{C}$ (at $+85^\circ\text{C}$ ref. to $+25^\circ\text{C}$) down to $\pm 25\ \text{ppm}/^\circ\text{C}$ or lower on special request for limited ohmic values and model no
Voltage coefficient	$+ 225\ ^\circ\ \text{C}$
Dielectric strength	(typical) see diagram page 12
Insulation resistance	1,000 V DC max. (25°C , 75 % relative humidity)
Overload / overvoltage	10 G Ω min. at 1,000 V DC
Load life	55x rated power at 125°C (referenced to specified power at $+125^\circ\text{C}$) with applied voltage not to exceed 1.5x maximum continuous operating voltage for 5 sec. ΔR 0.5 % max.
Load life stability	1,000 hours at $125^\circ\ \text{C}$ and rated power, components with 1 % tol. ΔR 0.2 % max.,
Moisture resistance	typical $\pm 0.02\%$ per 1,000 hours
Thermal shock	MIL-Std-202, method 106, ΔR 0.4 % max.
Encapsulation	MIL-Std-202, method 107, Cond. C, ΔR 0.25 % max
Other terminals availablabe	standard: silicone coating other coating options (like 2xpolyimide, glass) available on reques
Lead material	screw end caps [6/32", M4 (torque max. 1 Nm), customer-specific], golden leads with diameter 0,8 mm availabe for HVFseries (ask for details)

● Typical Voltage Coefficient

