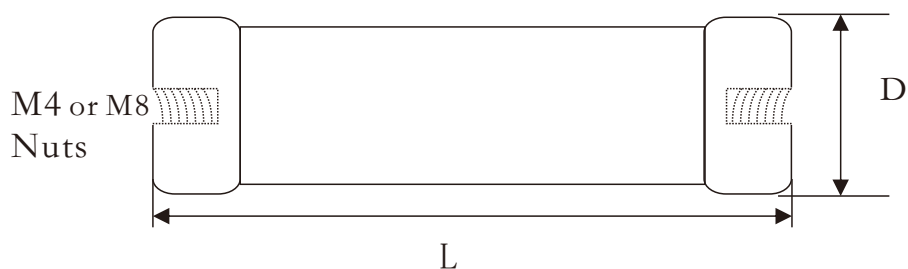




● Feature

Leadless cylindrical (thick film, non-inductive design) high voltage resistors, compared to chip high voltage resistors, have high mechanical strength, large thermal capacity, and good switching/pulse performance, and are high-end high voltage resistors.

● Dimensions

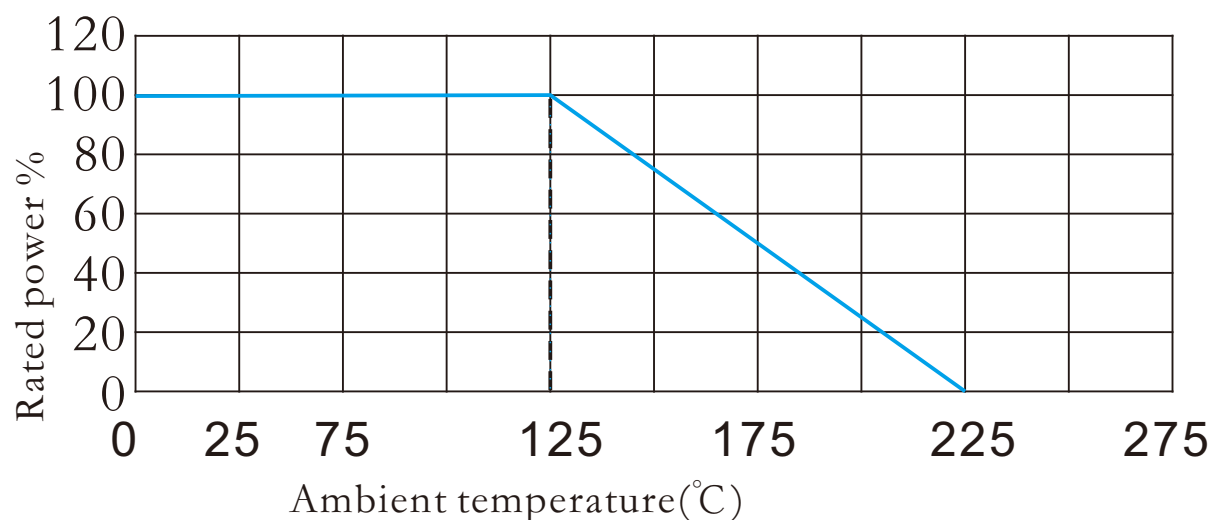


Type	Power @25°C	Power @75°C	Power @125°C	Resistance values (Ω)	Dimensions (mm)	
					L ± 1	D ± 0.5
HM33			1W	100KΩ-40M	33.7	8.2
HM39			1.25W	120KΩ-50M	39.5	8.2
HM46			1.5W	150KΩ-60M	46.2	8.2
HM58			2W	200KΩ-80M	58.5	8.2
HM84			3W	300KΩ-120M	84.5	8.2
HM110			4W	400KΩ-160M	110	8.2
HM130			5W	500KΩ-190M	130.7	8.2
HM160			6W	600KΩ-250M	160.7	8.2
HMV27	2.5W	2.5W	1.5W	200Ω-25M	27.3	8.2
HMV33	3.7W	3.7W	2.5W	250Ω-300M	33.7	8.2
HMV39	4.5W	4.5W	3.0W	300Ω-400M	39.5	8.2
HMV46	5.2W	5.2W	3.5W	400Ω-500M	46.2	8.2
HMV58	7.5W	7.5W	5.0W	500Ω-750M	58.5	8.2
HMV84	11W	11W	7.5W	900Ω-1G	84.5	8.2
HMV110	12W	12W	8.0W	1K5-1G	110	8.2
HMV130	15W	15W	10W	2K5-2G	130.7	8.2
HMV160	20W	20W	15W	2K0-2G	160.7	8.2
HMV214	60W	60W	50W	1K-3G	214.0	21

● Power And Resistance etc

Type	Power @25℃	Power @75℃	Power @125℃	T.C.R (PPM/℃)	Max. Power Voltage(KV)	Resistance tolerance
HM33			1W	HM: ±80ppm/℃ HVM: ±25ppm/℃ (25℃~105℃)	4.0KV	B(±0.1%) C(±0.25%) D(±0.5%) F(±1%) G(±2%) J(±5%) K(±10%)
HM39			1.25W		5.0KV	
HM46			1.5W		6.0KV	
HM58			2W		10KV	
HM84			3W		15KV	
HM110			4W		20KV	
HM130			5W		25KV	
HM160			6W		30KV	
HMV27	2.5W	2.5W	1.5W		3.0KV	
HMV33	3.7W	3.7W	2.5W		4.0KV	
HMV39	4.5W	4.5W	3.0W		5.0KV	
HMV46	5.2W	5.2W	3.5W		8.0KV	
HMV58	7.5W	7.5W	5.0W		10KV	
HMV84	11W	11W	7.5W		15KV	
HMV110	12W	12W	8.0W		20KV	
HMV130	15W	15W	10W		25KV	
HMV160	20W	20W	15W		30KV	
HMV214	60W	60W	50W		50KV	

● Derating Curve



● Ordering Information

Example:

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

(1)Type: HM/HMV ERIES

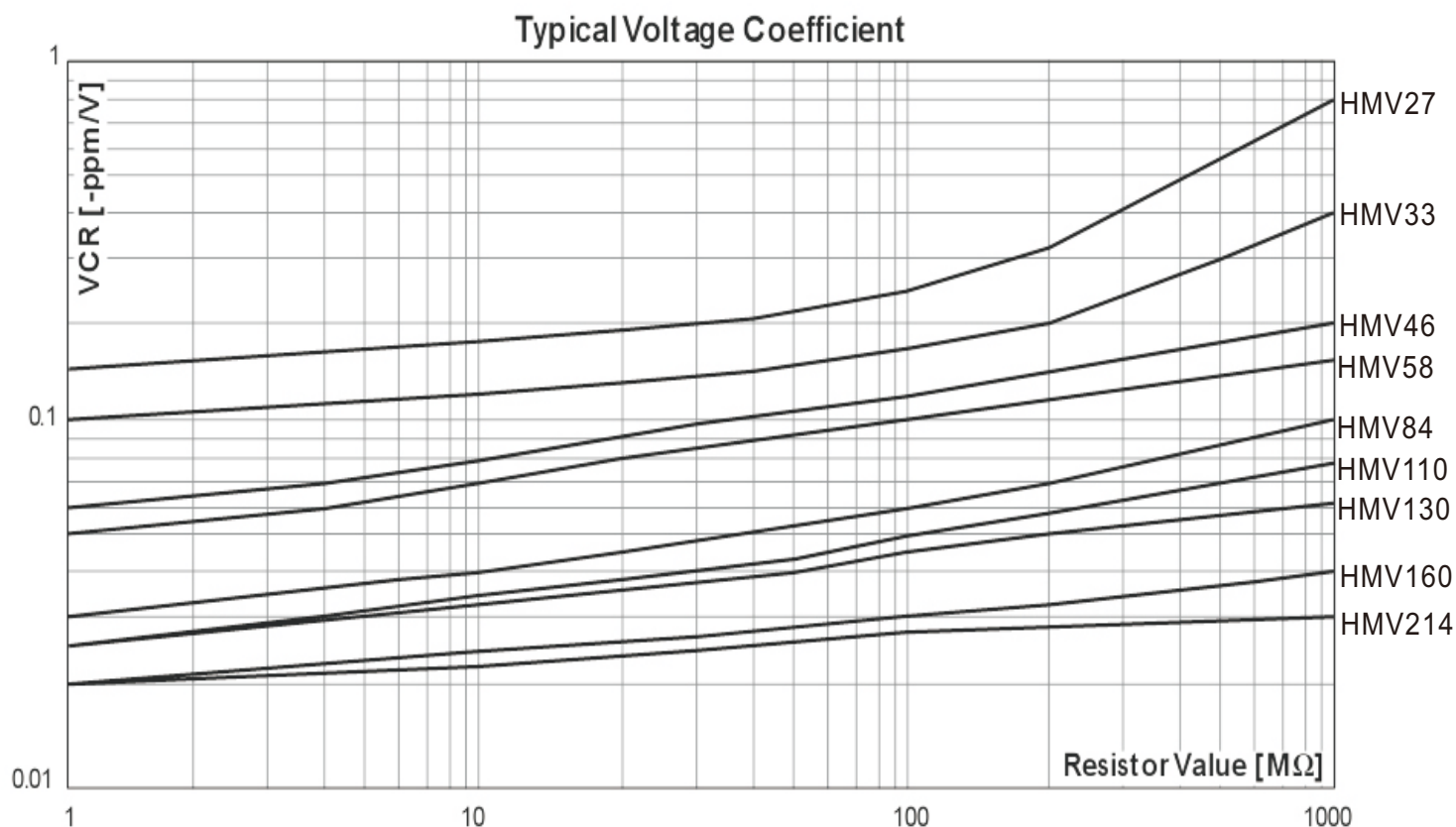
(2)Power Rating: 1W=1W、1.25W=1.25W、2=2W、3=3W、6=6W、8=8W、10=10W.....

(3)Tolerance: B= $\pm 0.1\%$ C= $\pm 0.25\%$ D= $\pm 0.5\%$ F= $\pm 1\%$ 、G= $\pm 2\%$ 、J= $\pm 5\%$ 、K= $\pm 10\%$

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

(5)TCR:HM: $\pm 80\text{ppm}/^\circ\text{C}$ HVM: $\pm 25\text{ppm}/^\circ\text{C}$ (

● Typical coltage coefficient



● Performance

Test Item	Specifications
Resistance tolerance:	$\pm 0.1\% \sim \pm 10\%$
Temperature coefficient:	HM: $\pm 80\text{ppm}/^{\circ}\text{C}$ HVM: $\pm 25\text{ppm}/^{\circ}\text{C}$ ($25^{\circ}\text{C} \sim 105^{\circ}\text{C}$)
Dielectric strength:	1000VDC
Insulation resistance:	$\leq 10\text{G}\Omega$
Overload / overvoltage:	5x 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:	1,000 hours at 125°C , $\Delta R \leq \pm 0.50\%R$.
Moisture resistance:	MIL-Std-202, method106, $\Delta R \leq \pm 0.40\%R$.
Thermal shock:	MIL-Std-202, method107, Cond. C, $R \leq \pm 0.5\%R$.
Encapsulation:	standard: silicone coating
Terminal installation:	M4/M8 screw (M8 for 214)
Cap material:	Brass M4/M8