

HVR CYLINDRICAL, HIGH VOLTAGE, THICK FILM, NON-INDUCTIVE, RESISTORS



The HVR series of cylindrical resistors are designed to operate at high voltages at an economical price. The HVR resistor is available with silicone[S] coating or epoxy[E] coating. The epoxy coated models have excellent humidity protection. A wide range of tolerances and TCRs are available in both types.

APPLICATIONS

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|--------------------------|-----------------------|-------------------------|
| Automated tests(ATE) | Medical(imaging) | Ion Source |
| Chromatography(Gas) | Medical (PET, CT) | Medical(Radiation) |
| Military (Radar) | Lasers (Plasma) | Measurements(High V.) |
| Capacitor Charging | High Voltage Dividers | CRT, X-Ray, MRI |
| Electrophoresis | Image Intensifier | Ozone Generation |
| Electron Beams | Surface Analysis | Corona Generators |
| Medical (Blood Analysis) | Microwave (klystron) | Nuclear Instrumentation |

WATTAGES, VOLTAGES & RESISTANCES

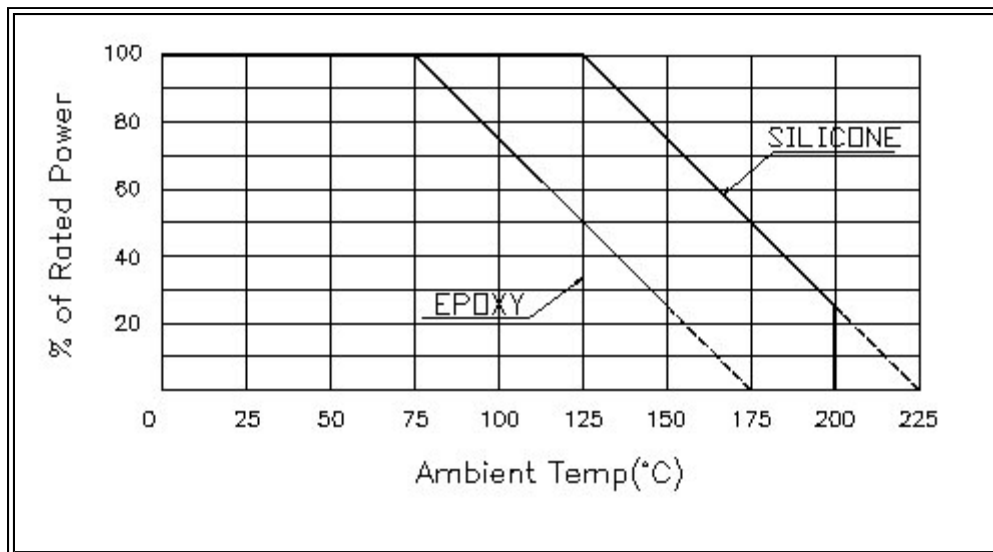
Model #	Wattage(W)	Max Voltage (kV)	Resistance Range (ohms)		
			Std. Min.	Std. Max.	Ext. Max.
HVR24E/S	2	4.0	500	150M	750M
HVR39E/S	3	6.0	500	300M	1500M
HVR43E/S	3.5	7.5	500	400M	2000M
HVR52E/S	5	10.0	500	500M	2500M
HVR76E/S	7	15.0	500	750M	3800M
HVR102E/S	9	20.0	500	1G	5G
HVR152E/S	16	30.0	500	2G	10G

Also available in extended ohmic ranges up to 10 Tohms

SPECIFICATIONS (values in [] refer to ohmic value after test)

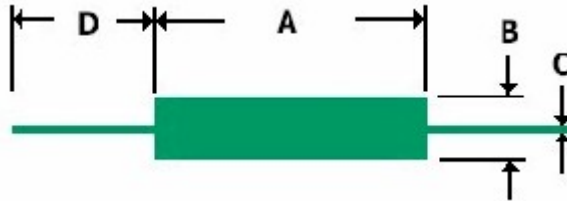
Moisture Resistance	[0.4% max.]Mil. Std. 202, Method 106
Resistance Tolerance	1, 2, 5, 10%
Termination Cap	Gold Plated
Temperature Coefficient	Std. 100ppm/deg.C, ref. 25C, change in R taken at -15C & +105C
Overload Spec	[0.5%max.] Smallest of 5X rated P or less than 1.5X max. V for 5sec
Encapsulation Spec	High temperature silicone or epoxy conformal
Load Life	[.5% or .5%max.]1,000 hours at load life
Thermal Shock	[0.25%max.] Mil. Std. 202, Method 107, Cond. C
Lead Material	Gold plated copper, solderable
Insulation Resistance	10,000 Mohms minimum

DERATING



DIMENSIONS





Model	A(mm/in.)	B(mm/in.)	C(mm)	D(mm)
HVR24E/S	24+-0.5/.944	8.0+-0.5/.314	1.0+-0.5	38.10+-3.18
HVR39E/S	39+-0.5/1.5	8.0+-0.5/.314	1.0+-0.5	38.10+-3.18
HVR43E/S	43.5+-0.5/1.712	8.0+-0.5/.314	1.0+-0.5	38.10+-3.18
HVR52E/S	52+-0.5/2.047	8.0+-0.5/.314	1.0+-0.5	38.10+-3.18
HVR76E/S	76+-0.5/2.547	9.0+-0.5/.4	1.0+-0.5	38.10+-3.18
HVR102E/S	102+-0.5/4.0	10.0+-0.5/0.4	1.0+-0.5	38.10+-3.18
HVR152E/S	152+-1.5/6.0	10.0+-0.5/0.4	1.0+-0.5	38.10+-3.18

ORDERING EXAMPLE

HVR24 E 10Mohm J				If you have any further questions, please contact the RARA Design Team
Model#	E=epoxy S=silicone	Resistance	Tolerance	

RARA