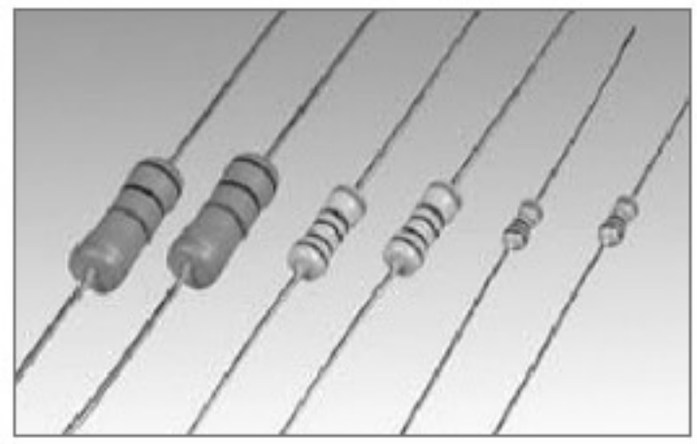
HOR

High Ohmic Value Thick Film Resistors

These are thick film, low cost, axial lead, color coded resistors which exhibit a high overload rating. Complete environmental protection is ensured with an epoxy coating.



■ GENERAL SPECIFICATIONS

Model	Power Rating[W]	Max. Working Voltage[V]	Max. Overload Voltage[V]	Resistance Range[Ω]	
				C(±0.25%), F(±1%), G(±2%)	K(±10%), J(±5%)
HOR14	0.25	500	700	100k ~ 100M	101M ~ 1G
HOR12	0.5	700	1000	100k ~ 100M	101M ~ 1G
HOR10	1	1000	1500	100k ~ 100M	101M ~ 1G
HOR20	2	1200	1500	100k ~ 100M	101M ~ 1G

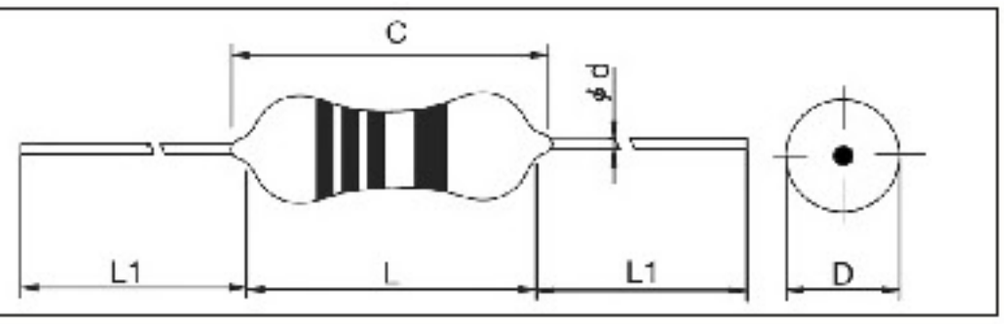
■ CHARACTERISTICS

Values in [ ] mean change in Ω after test

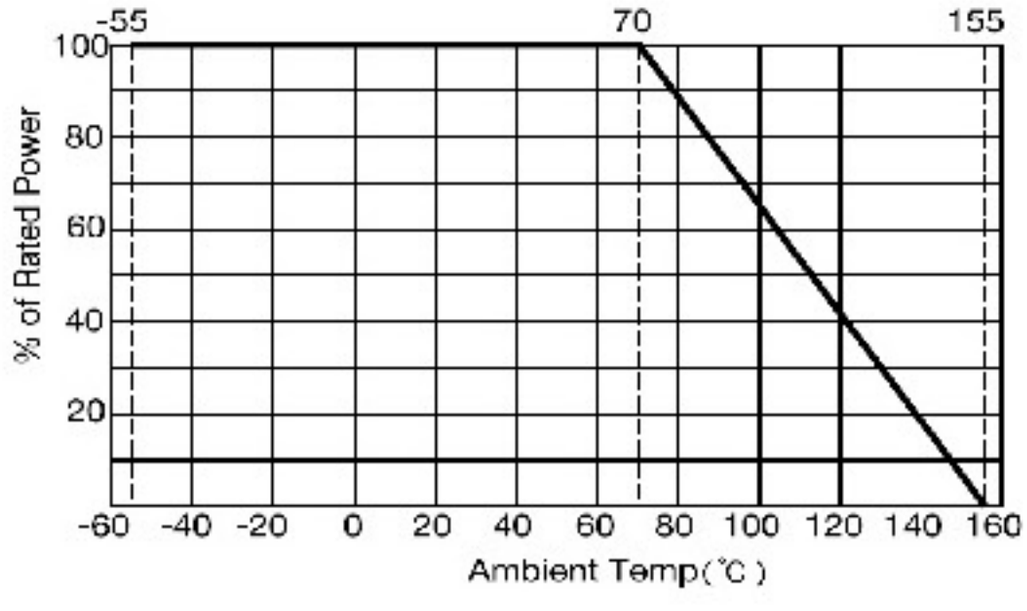
Temperature Range		-55℃ ~ 155℃
Insulation Resistance	[10,000 MΩ minimum]	DC100V, 1minute
Dielectric Withstanding Voltage	[No evidence of damage]	maximum working voltage / minute
Temp. Coefficient	[±100 ~ 200 ppm/℃]	
Short Time Overload	[±1%]	Use smallest valve: 2.5 x Rated Voltage or Max, Overload voltage for 5 sec.
Moisture Resistance	[±5%]	40℃±2℃, 90%~95%RH 1000. 1.5h on, 0.5h off cycle
Thermal Shock	[±1%]	-55℃(30minute.)155℃(30minute), 5 cycles
Resistance to Soldering Heat	[±1%]	260℃±5℃, 10sec.±1sec. or 350℃±10℃, 3.5sec.±0.5sec.
Load Life	[±5%]	70℃±2℃ 1000hours. 1.5hours on, 0.5hours off cycle

■ DIMENSIONS (mm)

Model	Dimensions[mm]				
	L	C maximum	D	Φd (Nominal)	L1±3
HOR14	6.3±0.5	7.1	2.3±0.3	0.6	30
HOR12	9.5±1.0	11.1	3.5±0.4	0.7	30
HOR10	12±1.0	14.0	4.0±0.5	0.8	30
HOR20	16±1.0	18.0	4.5±0.5	0.8	30



■ DERATING CURVE



■ ORDERING PROCEDURE EXAMPLE