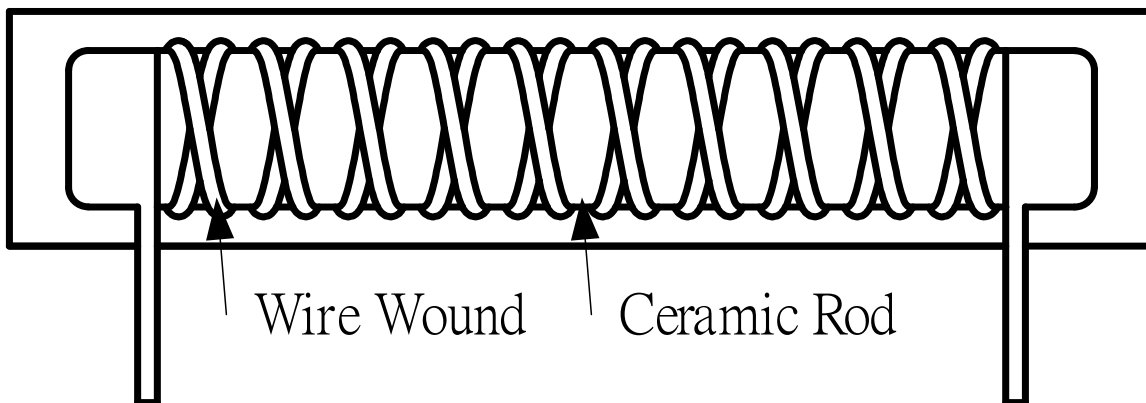
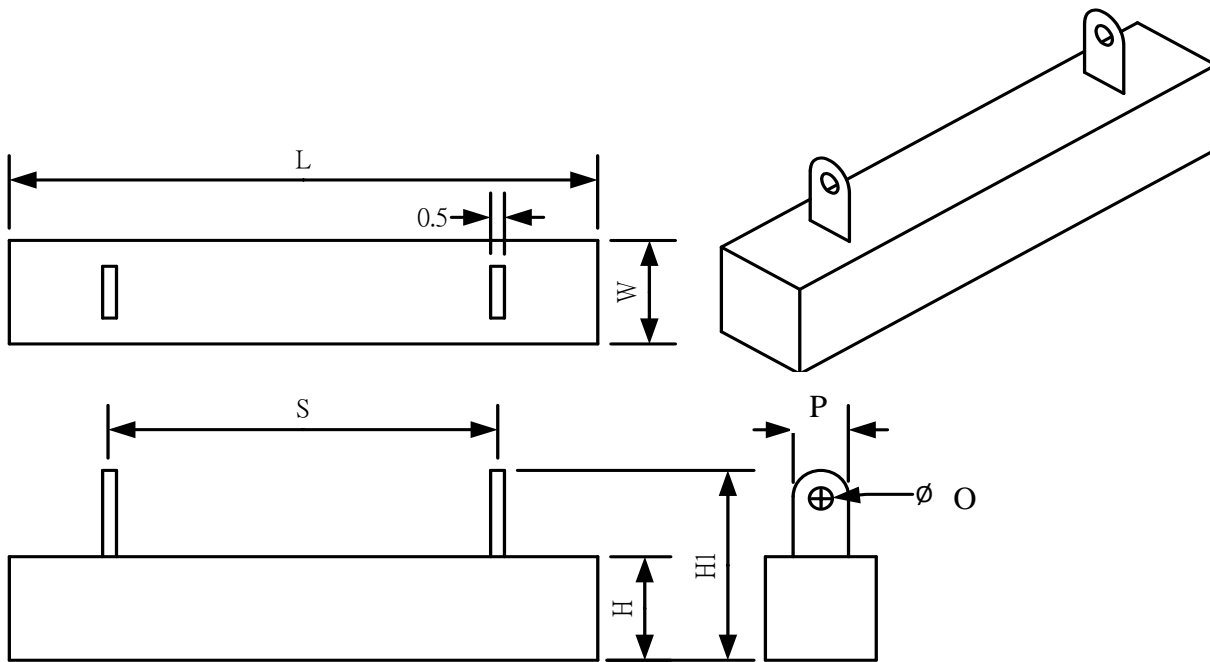


1. Low noise .
2. Instance overload capability; long term stability .
3. Excellent insulation being used in P.C.B.
4. Excellent heat dissipation; small linear .
5. Operating temperature range
  - Wire Wound :  $-55^{\circ}\text{C} \sim +155^{\circ}\text{C}$

★ **Construction**



★DIMENSIONS

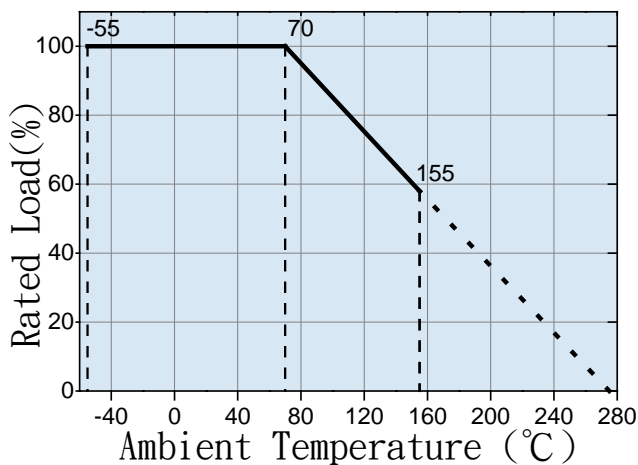


SHN	RESISTANCE RANGE	DIMENSIONS(mm)						
		L±2	H±1	W±1	S±2	H1±3	P±1	O±1
10W	0.1 Ω ~ 33 Ω	48	10	10	33	21	6	2.5
15W	0.1 Ω ~ 33 Ω	48	12	12	33	21	6	2.5
20W	0.1 Ω ~ 150 Ω	63.7	12	12	42	22	6	2.5
30W	0.1 Ω ~ 300 Ω	75	19	18	56	30	7.5	3
40W	0.1 Ω ~ 1K Ω	90	19	18	68	30	7.5	3
50W	0.1 Ω ~ 1K Ω	90	19	18	68	30	7.5	3
60W	0.1 Ω ~ 1K Ω	90	19	18	68	30	7.5	3

Resistance Range for standard resistance , below or over this resistance on request.

★PoWer Derating Curve

●Cement Wire Wound Resistor



★ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	Wire Wound
SHORT TIME OVERLOAD	JIS-C-5202 5.5 10 times RCWV for 5 seconds	±(2%+0.05Ω)
TEMPERATURE COEFFICIENT	Resistance value at room Temperature and room Temperature+100°C	±400ppm
LOAD LIFE	JIS-C5202 7.10 70°C at RCWV for1000hrs.(1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
LOAD LIFE IN HUMIDITY	JIS-C5202 7.9 40±2°C 90~95%RH at RCWV for1000hrs. (1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
SOLDER ABILITY	JIS-C5202 6.5 235±5°C for 2±0.5 seconds	95% min. coverage
PULSE OVERLOAD	JIS-C5202 5.8 4 times RCWV for10000cycles(1sec.on , 25secs.off)	MAX.1500V ±(1%+0.05Ω)
Dielectric Withstanding volt		MAX.1000V

Rated continuous Working Voltage (RCWV) =  $\sqrt{POWER.RATING. * RESISTANCE.VALUE}$

★PART NUMBER:

SHN	10W	3K	J
↓	↓	↓	↓
Type	Power rating	Resistance	Tolerance
Non inductive Cement SHN Type	10W	1R   1Ω	F   ± 1%
	15W	10R   10Ω	G   ± 2%
	.....	.....	J   ± 5%
	50W	330R   330Ω	K   ± 10%
	60W	1K   1KΩ	