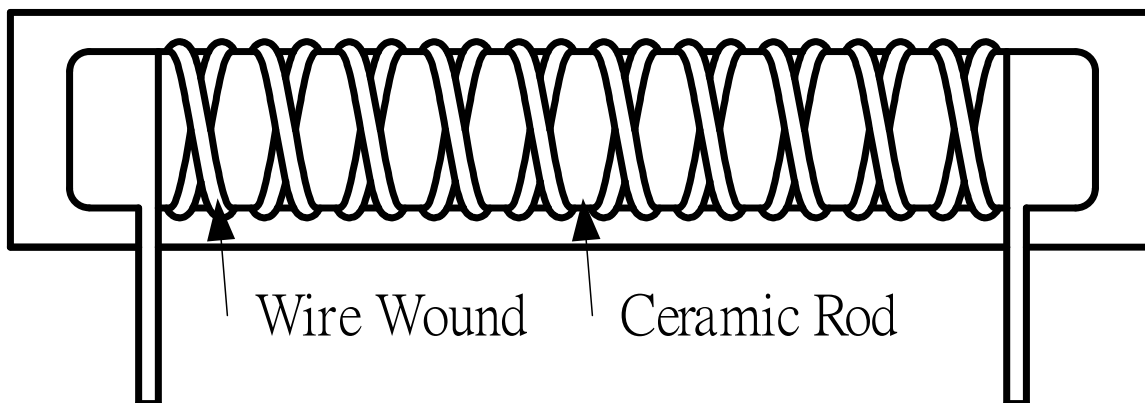


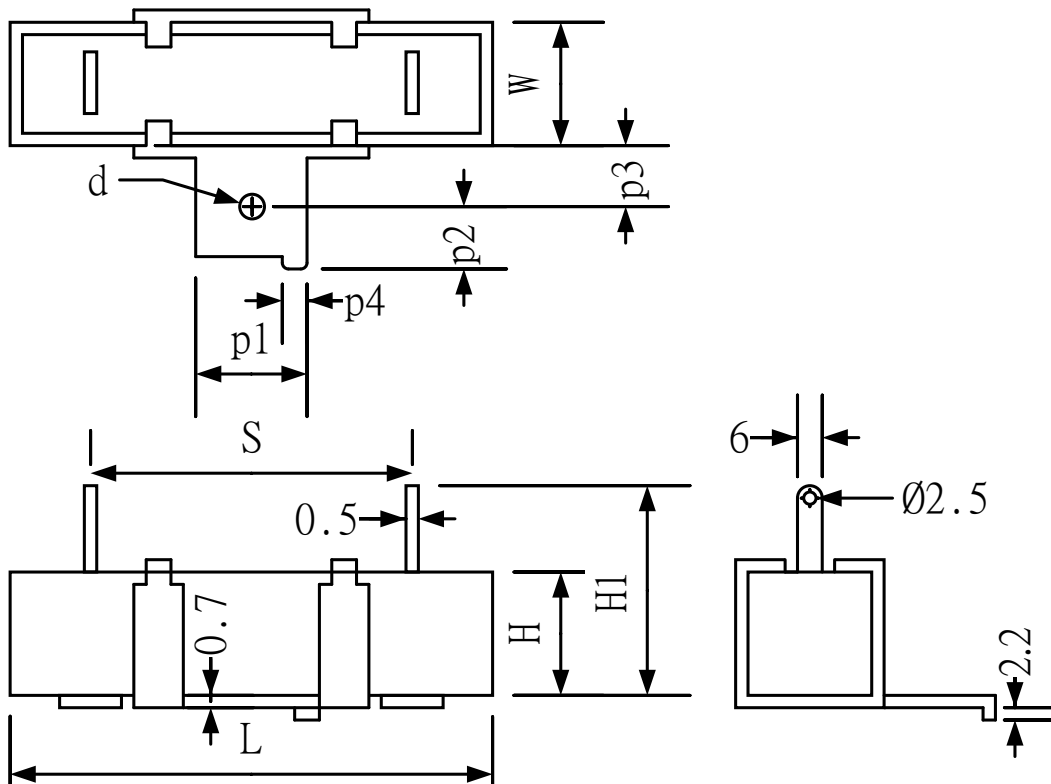
1. Low noise .
2. Instance overload capability; long term stability .
3. Excellent insulation being used in P.C.B.
4. Excellent heat dissipation; small linear .
5. Operating temperature range
 - Wire Wound : $-55^{\circ}\text{C} \sim +155^{\circ}\text{C}$
6. The special products can be used metal glazed (hi voltage ; hi value)



★Construction



★DIMENSIONS

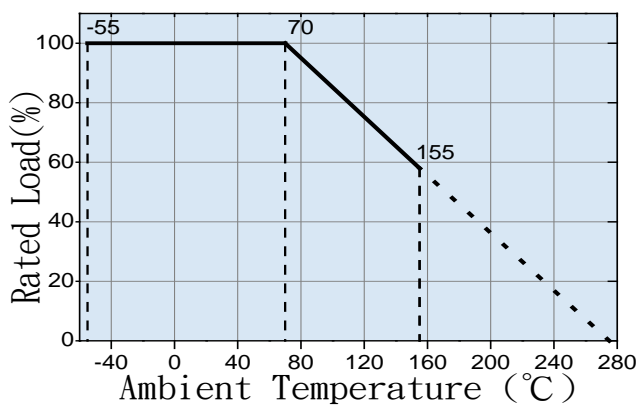


SGN	RESISTANCE RANGE	DIMENSIONS(mm)									
		L±2	H±1	W±1	S±2	H1±1	P1±1	P2±1	P3±1	P4±1	d
10w	0.1 Ω ~ 33 Ω	48	10	10	33	21	12	6	8	3	4
15w	0.1 Ω ~ 33 Ω	48	12	12	33	21	12	6	8	3	4
20w	0.1 Ω ~ 150 Ω	63.7	12	12	42	24	12	6	8	3	4
30w	0.1 Ω ~ 300 Ω	75	19	18	56	30	17	8	10	3	4
40w	0.1 Ω ~ 1K Ω	90	19	18	68	30	17	8	10	3	4
50w	0.1 Ω ~ 1K Ω	90	19	18	68	30	17	8	10	3	4
60w	0.1 Ω ~ 1K Ω	90	19	18	68	30	17	8	10	3	4

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:

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