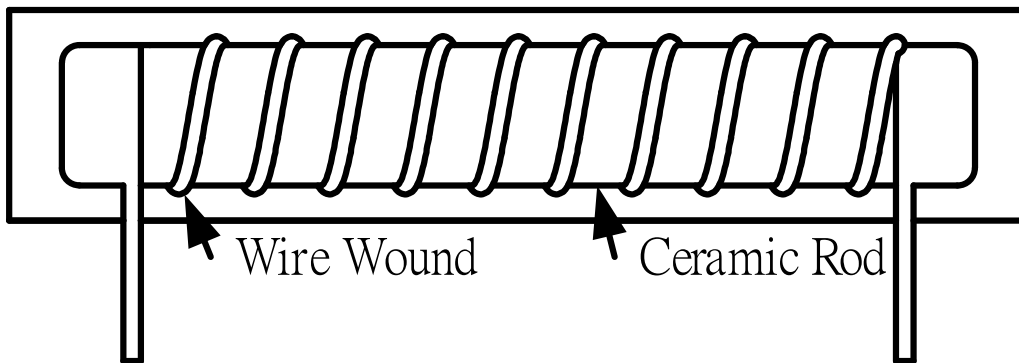


1. Low noise .
2. Instance overload capability; long term stability .
3. Excellent insulation being used in P.C.B.
4. Excellent heat dissipation; small linear .
5. Metal oxide film cutting core can offer high range resistance ( $1\ \Omega \sim 100K$ )
6. Operating temperature range
  - Wire Wound :  $-55^{\circ}\text{C} \sim +155^{\circ}\text{C}$
  - Metal oxide :  $-30^{\circ}\text{C} \sim +155^{\circ}\text{C}$

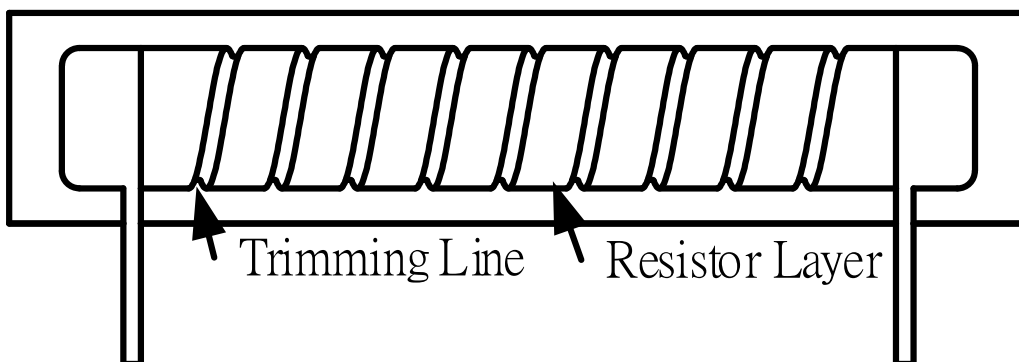


## ★ Construction

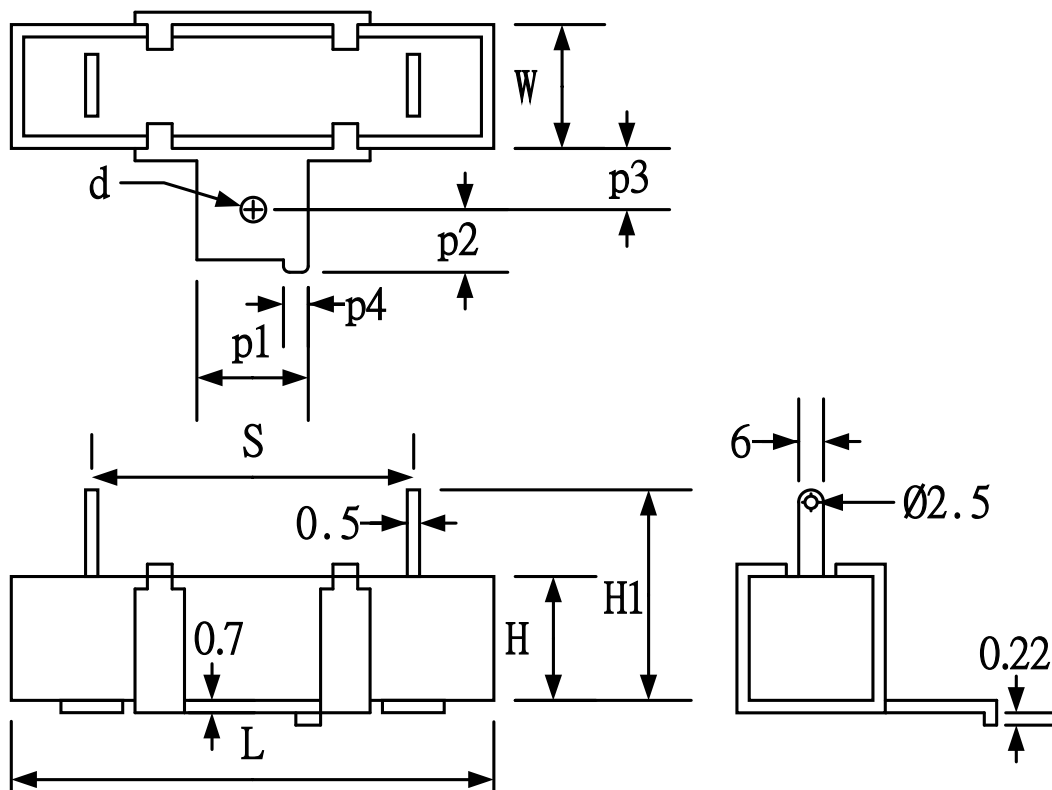
### Cement Wire Wound Resistor



### Cement Wire Wound Resistor



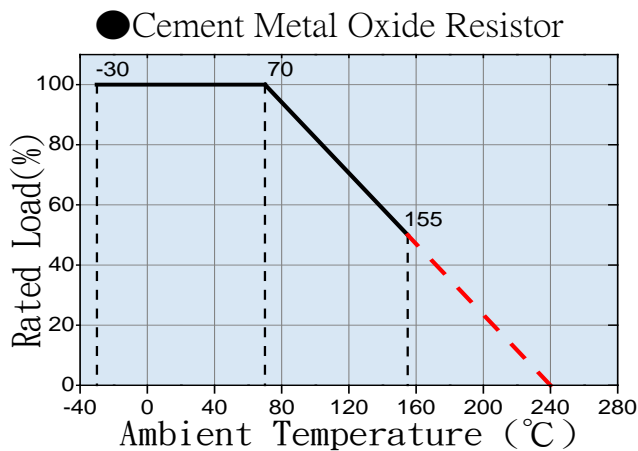
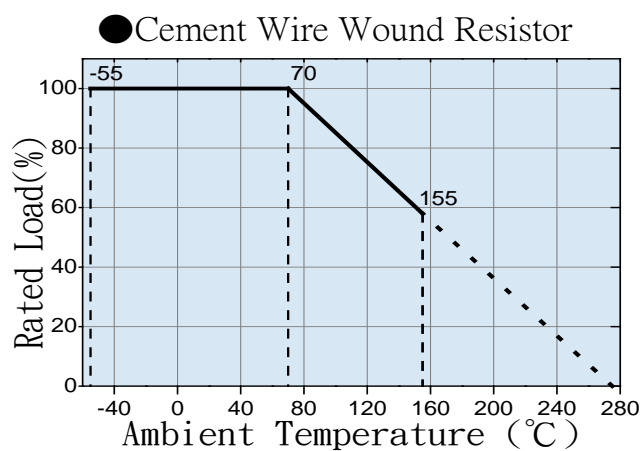
## ★ DIMENSIONS



SQG	RESISTANCE RANGE $\Omega$		DIMENSIONS(mm)									
	Wire Wound	Metal Oxide	L $\pm$ 2	H $\pm$ 1	W $\pm$ 1	S $\pm$ 2	H1 $\pm$ 1	P1 $\pm$ 1	P2 $\pm$ 1	P3 $\pm$ 1	P4 $\pm$ 1	d
10w	0.1 $\Omega$ ~ 100 $\Omega$	100 $\Omega$ ~ 150K $\Omega$	48	10	10	33	21	12	6	8	3	4
15w	0.1 $\Omega$ ~ 100 $\Omega$	100 $\Omega$ ~ 150K $\Omega$	48	12	12	33	21	12	6	8	3	4
20w	0.1 $\Omega$ ~ 500 $\Omega$	500 $\Omega$ ~ 150K $\Omega$	63.7	12	12	42	24	12	6	8	3	4
30w	0.1 $\Omega$ ~ 1K $\Omega$	1K $\Omega$ ~ 150K $\Omega$	75	19	18	56	30	17	8	10	3	4
40w	0.1 $\Omega$ ~ 3K $\Omega$	3K $\Omega$ ~ 150K $\Omega$	90	19	18	68	30	17	8	10	3	4
50w	0.1 $\Omega$ ~ 3K $\Omega$	3K $\Omega$ ~ 150K $\Omega$	90	19	18	68	30	17	8	10	3	4
60w	0.1 $\Omega$ ~ 3K $\Omega$	3K $\Omega$ ~ 150K $\Omega$	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



★ ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	Wire Wound	Metal Oxide
SHORT TIME OVERLOAD	JIS-C-5202 5.5 10 times RCWV for 5 seconds	±(2%+0.05 Ω)	±(0.25%+0.05 Ω)
TEMPERATURE COEFFICIENT	Resistance value at room Temperature and room Temperature+100°C	±400ppm	±200ppm
LOAD LIFE	JIS-C5202 7.10 70°C at RCWV for1000hrs.(1.5hrs. on , 0.5hrs.off)	±(5%+0.05 Ω)	±(1.5%+0.05 Ω)
LOAD LIFE IN HUMIDITY	JIS-C5202 7.9 40±2°C 90~95%RH at RCWV for1000hrs. (1.5hrs. on , 0.5hrs.off)	±(5%+0.05 Ω)	±(1.5%+0.05 Ω)
SOLDER ABILITY	JIS-C5202 6.5 235±5°C for 2±0.5 seconds	95% min. coverage	95% min. coverage
PULSE OVERLOAD	JIS-C5202 5.8 4 times RCWV for10000cycles(1sec.on , 25secs.off)	MAX.1500V ±(1%+0.05 Ω)	MAX.1500V ±(1%+0.05 Ω)
Dielectric Withstanding volt		MAX.1000V	MAX.1000V

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

★PART NUMBER:

