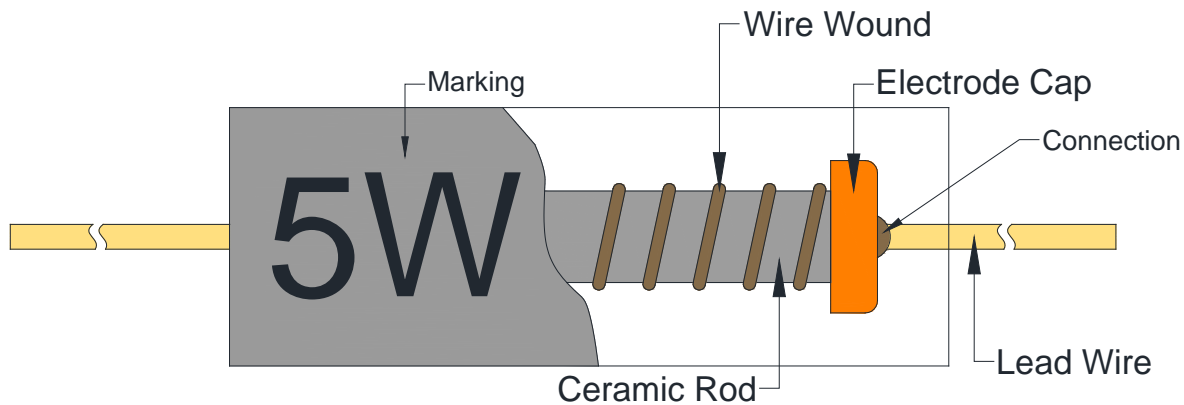


1. Low noise .
2. Instance overload capability; long term stability .
3. Excellent insulation being used in P.C.B.
4. Excellent heat dissipation; small linear .
5. Metal oxide film cutting core can offer high range resistance ($1\ \Omega \sim 100K$)
6. Operating temperature range
 - Wire Wound : $-55^{\circ}\text{C}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

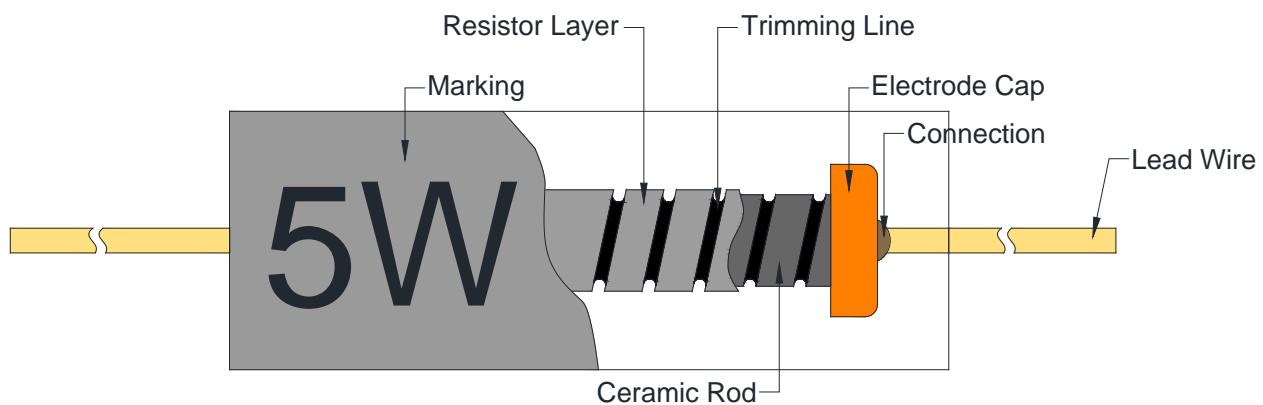


★Construction

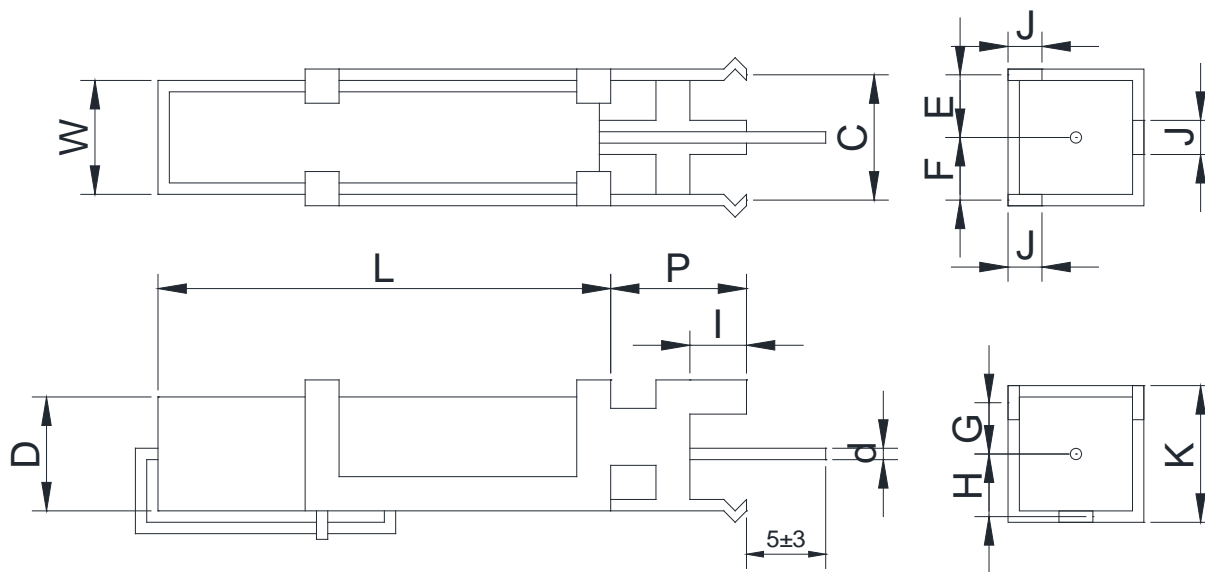
Cement Wire Wound Resistor



Cement Metal Oxide Resistor



★DIMENSIONS

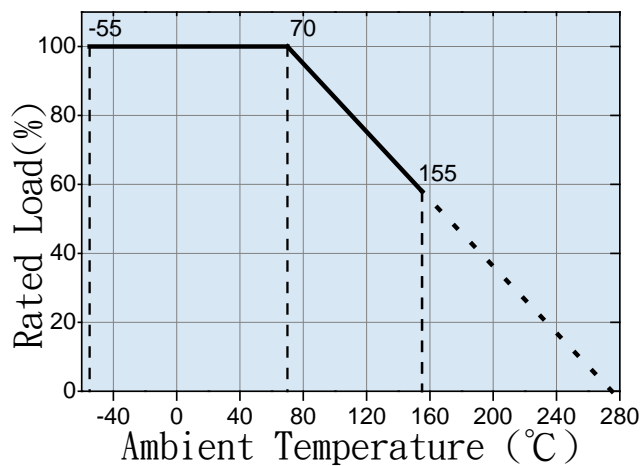


SQS	DIMENSIONS													RESISTANCE RANGE Ω	
	W \pm 1	D \pm 1	L \pm 1	C \pm 1	K \pm 1	E \pm 0.5	F \pm 0.5	G \pm 0.5	H \pm 0.5	I \pm 0.5	J \pm 0.2	P \pm 0.2	d \pm 0.03	Wire Wound	Metal oxide
5W	10	9	22	10.5	10	5	5	5	5	4	1.5	5	0.78	0.1 Ω ~ 50 Ω	50 Ω ~ 50K Ω
7W	10	9	35	10.5	10	5	5	5	5	4	1.5	5	0.78	0.1 Ω ~ 100 Ω	100 Ω ~ 50K Ω
10W	10	9	48	10.5	10	5	5	5	5	4	1.5	10	0.78	0.1 Ω ~ 100 Ω	100 Ω ~ 50K Ω
20W	14	14	60	15	15	6.5	6.5	5.5	5.5	5.5	2.5	10	0.78	0.1 Ω ~ 100 Ω	100 Ω ~ 50K Ω
25W	14	14	60	15	15	6.5	6.5	5.5	5.5	5.5	2.5	10	0.78	0.1 Ω ~ 100 Ω	100 Ω ~ 50K Ω

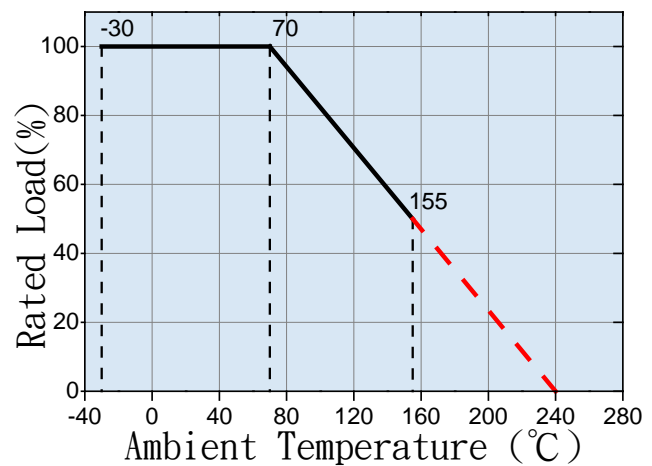
Resistance Range for standard resistance , below or over this resistance on request.

★Power Derating Curve

●Cement Wire Wound Resistor



●Cement Metal Oxide Resistor



★ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	Wire Wound	Metal Oxide
SHORT TIME OVERLOAD	JIS-C-5202 5.5 2.5 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	MAX.1500V	MAX.1500V
	4 times RCWV for1000cycles(1sec.on , 25secs.off)	±(1%+0.05 Ω)	±(1%+0.05 Ω)
Dielectric Withstanding volt		MAX.1000V	MAX.1000V

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

★PART NUMBER:

SQS	5W	3K	J
↓	↓	↓	↓
Type	Power rating	Resistance	
Cement SQS Type	5W	1R	1 Ω
	7W	10R	10 Ω
	10W	100R	100 Ω
	20W	1K2	1K2 Ω
	25W	10K	10K Ω
		Tolerance	
		F	± 1%
		G	± 2%
		J	± 5%
		K	± 10%
		M	± 20%