

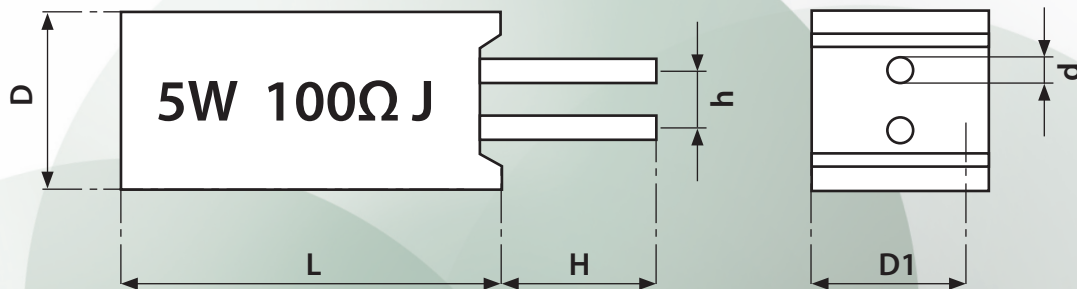
SQM SERIES

CEMENT RESISTORS

RoHS

FEATURES

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



DIMENSIONS

SQM	DIMENSION (mm)						VALUE RANGE		MAX WORKING VOLTAGE
	L ± 0.5	H ± 3	D ± 1	D1 ± 1	h	d	Wire Wound	Metal oxide	
2W	20	4~15 ± 1	11.5	7.5	5 $^{+2}_{-1}$	0.65 ± 0.03	0.01 $\Omega\sim 50\Omega$	50 $\Omega\sim 50K$	150V
3W	25	4~15 ± 1	12	8.5	5 $^{+2}_{-1}$	0.8 ± 0.03	0.01 $\Omega\sim 50\Omega$	50 $\Omega\sim 50K$	300V
5W	25	4~15 ± 1	13	9	5 $^{+2}_{-1}$	0.8 ± 0.03	0.01 $\Omega\sim 50\Omega$	50 $\Omega\sim 50K$	350V
7W	39	4~15 ± 1	13	9	5 $^{+2}_{-1}$	0.8 ± 0.03	0.01 $\Omega\sim 100\Omega$	100 $\Omega\sim 47K$	500V
10W	51	4~15 ± 1	13	9	5 $^{+2}_{-1}$	0.8 ± 0.03	0.01 $\Omega\sim 100\Omega$	100 $\Omega\sim 47K$	750V
10WS	35	4~15 ± 1	16	12	7.5 $^{+2}_{-1}$	0.8 ± 0.03	0.01 $\Omega\sim 100\Omega$	100 $\Omega\sim 47K$	750V

Resistance Range for standard resistance below or over this resistance on request.
Non-inductive type up 50 Ω only.



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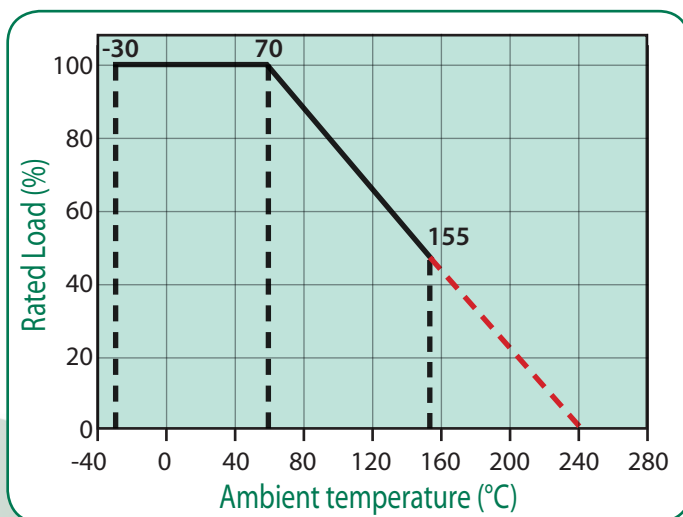
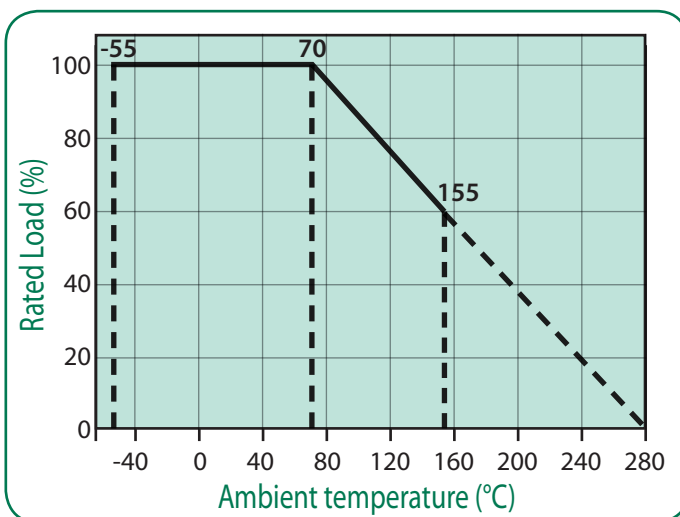
CEMENT RESISTORS

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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 10 times RCWV for 5 seconds	±(2%+0.05Ω)	±(0.25%+0.05Ω)
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%+0.05Ω)	±(1.5%+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)	±(1.5%+0.05Ω)
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 for10000cycles(1sec.on 25secs.off)	±(1%+0.05Ω)	±(1%+0.05Ω)
Dielectric Withstanding volt		MAX.1000V	MAX.1000V

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



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PART NUMBER

SQ	M		5W	3K	J	
Type	Type	Resistance		Resistance		J
SQ Cement	M		2W	1R	1Ω	G (±2%)
		Standard	3W	10R	10Ω	J (±5%)
		N	5W	100R	100Ω	K (±10%)
		Non Inductive	7W	1K2	1K2Ω	
			10W			
			10WS			
			10WSP			
			15W			

