

Cement Resistors (Axial Type)



SQT Series

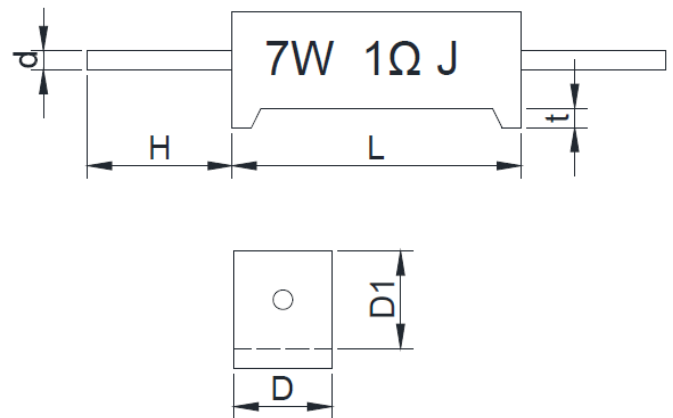
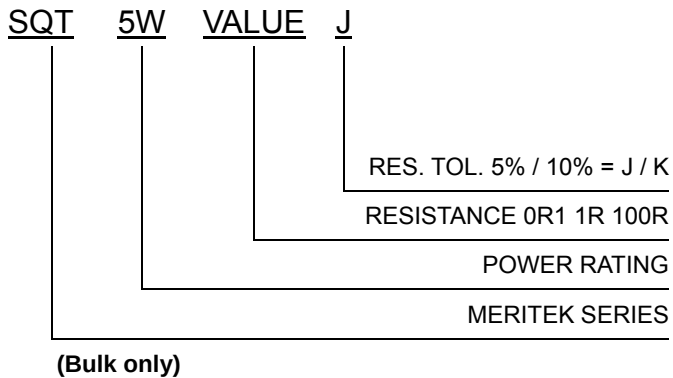
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FEATURES

- Low noise
- Instance overload capability; long term stability
- Excellent insulation being used in PCB
- Excellent heat dissipation; small linear
- Metal oxide film cutting core can offer high range resistance (1Ω~100KΩ)
- Operating temperature range
 - o Wire Wound:-55°C--+155°C
 - o Metal Oxide:-30°C--+155°C



PART NUMBERING SYSTEM



SPECIFICATIONS

SQT	DIMENSION(mm)					Value Range		Max working voltage
	<u>L</u>	<u>H</u>	<u>D</u>	<u>D1</u>	t	Wire wound	Metal oxide	
5W	22.0	27.0 ±3	10.0	9.0	1.5	0.1Ω~50Ω	51Ω~50KΩ	350V
7W	35.0	27.0 ±3	10.0	9.0	3.0	0.1Ω~100Ω	101Ω~47KΩ	500V
10W	48.0	27.0 ±3	10.0	9.0	3.0	0.1Ω~100Ω	101Ω~47KΩ	750V
15W	48.0	27.0 ±3	12.5	12.5	3.0	0.1Ω~100Ω	101Ω~47KΩ	750V
20W	60.0	27.0 ±3	13.0	14.0	5.0	0.1Ω~100Ω	101Ω~47KΩ	750V
25W	60.0	27.0 ±3	13.0	14.0	5.0	0.1Ω~100Ω	101Ω~47KΩ	750V

1. Resistance ranges listed above are standard parts, resistance below or over this range is available upon request.
2. Non-inductive type available up to 50 ohms.

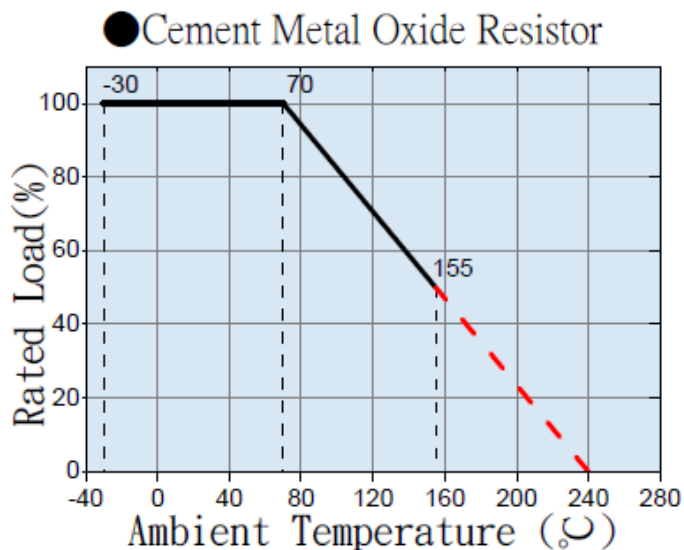
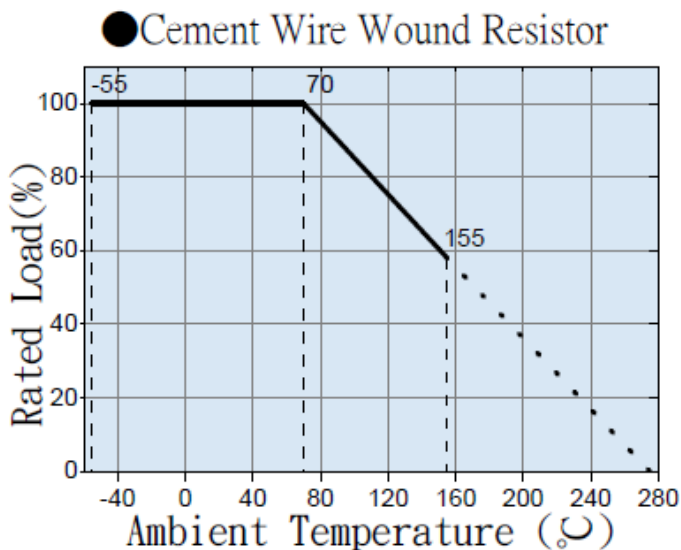
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POWER DERATING CURVE



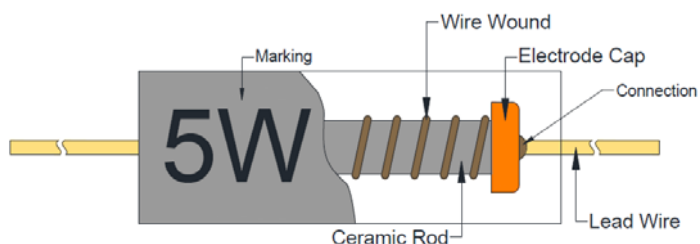
PERFORMANCE

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 for 1000hrs.(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 for 1000hrs. (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 for 10000cycles(1sec.on, 25secs. off)	±(1%+0.05Ω)	±(1%+0.05Ω)
Dielectric withstanding volt		Max.1000v	Max.1000v

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

CONSTRUCTION

Cement Wire Wound Resistor



Cement Metal Oxide Resistor

