Cement Resistor - SQC Series

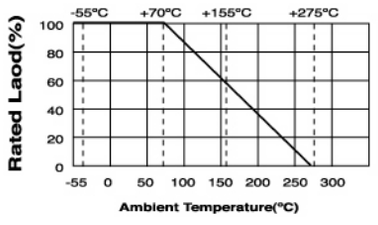
INTRODUCTION

Motor resistor can be installed in the carburetor of car or motorcycle as a heater, and also can be a pseudo-load fitting for car or motorcycle lights. Resistors become very hot and must be mounted to metal or stainless steel and away from paint work, plastics and rubber. SQC also can be separated into two according to customer's needs.

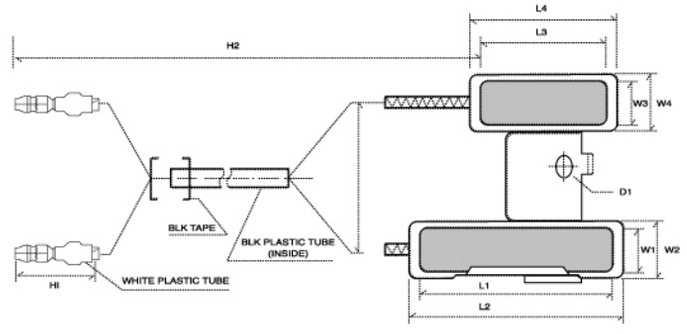
Products feature:

- Low power consumption
- Small size and sturdy mechanically safe
- Easy to install and fit for most import and domestic vehicles

Derating Curve:



Raw Materials:



TYPE	L1±0.5	L2±1	L3±0.5	L4±1	W1±0.5	W2±1	W3±0.5	W4±1	H1 MAX.	H2+10 -0	D1+0.5 -0
20W+5W	64	66	42	44	13	15	13	15	30	250	6.5
TYPE	L1±0.5	L2±1	L3±0.5	L4±1	W1±0.5	W2±1	W3±0.5	W4±1	H1 MAX.	H2+10 -0	D1+0.5 -0
30W+5W	75	77	42	44	14	16	13	15	30	250	6.5

Performance Specifications:

Characteristics	Test Methods	Limits
Temperature coefficient JIS - C - 5202 5.2	Natural resistance change per temp. degree centigrade $\frac{R_2 - R_1}{R_1 (t_2-t_1)} \times 10^6$ (PPM /°C) R_1 : Resistance value at room temperature (t_1) R_2 : Resistance value at room temp. plus 100°C (t_2)	± 400PPM / °C
Short - time overload JIS - C - 5202 5.5	Permanent resistance change after the application of a potential of 2.5 times RCWV or the Max. overload voltage respectively specified in the above list, whichever less for 5 seconds.	Resistance change rate is ±(5% + 0.05Ω) Max. with no evidence of mechanical damage
Dielectric withstanding voltage JIS - C - 5202 5.7	Resistors shall be clamped in the trough of a 90° metallic V-block and shall be tested at AC potential respectively for 60 + 10 / -0 seconds.	No evidence of flashover mechanical damage, arcing or insulation break down.
Pulse Overload JIS - C - 5202 5.8	Resistance change after 10,000 cycles (1 second "on", 25 seconds "off") at 4 times RCWV or the Max. pulse overload voltage.	Resistance change rate is ±(5% + 0.05Ω) Max. with no evidence of mechanical damage
Terminal Strength JIS - C - 5202 6.1	**Direct Load:** Resistance to a 2.5 kg. direct load for 10 seconds in the Direction of the longitudinal axis of the terminal flake.	No evidence of mechanical damage
Temperature cycling JIS - C - 5202 7.4	Resistance change after continuous five cycles for duty cycle specified below: Step / Temperature / Time 1 / -55°C ± 3°C / 30 mins. 2 / Room temp. / 10 - 15 mins. 3 / +155°C ± 2°C / 30 mins. 4 / Room temp. / 10 - 15 mins.	Resistance change rate is±(5%+0.05Ω) No evidence of mechanical damage.
Humidity JIS - C - 5202 7.5	Temporary resistance change after 240 hours exposure in a humidity test chamber controlled at 40°C ± 20°C and 90 to 95% relative humidity.	Resistance change rate is±(5%+0.05Ω) No evidence of mechanical damage.
Load life in humidity JIS - C - 5202 7.9	Resistance change after 1,000 hours operating at RCWV with duty cycle of (1.5 hours "on", 0.5 hour "off") in a humidity test chamber controlled at 40°C ± 2°C and 90 to 95% relative humidity.	Resistance change rate is ±(10% + 0.05Ω) No evidence of mechanical damage
Load life JIS - C - 5202 7.10	Permanent resistance change after 1,000 hours operating at RCWV with duty cycle of (1.5 hours "on", 0.5 hour "off") at 70°C ± 2°C ambient.	Resistance change rate is ±(10% + 0.05Ω) No evidence of mechanical damage
Vibration Test	Frequency: 10 ~ 50 Hz Amplitude: 1.5 mm Vibrated for a period of 2 hours in XYZ three direction each other, total 6 hours.	Resistance change rate is ±(10% + 0.05Ω) No evidence of mechanical damage Step Temperature Time

*RCWV = Rated Continuous Working Voltage = Rated Power x Resistance Value