

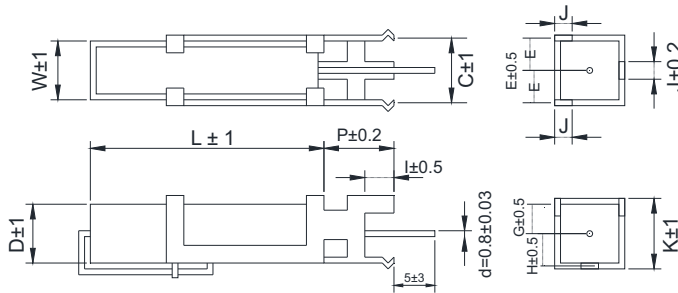
INTRODUCTION

Cement-Box type resistors offer a choice of resistive elements inside a white flameproof cement box. In addition to being flameproof, these resistors are also non-corrosive and humidity proof. The available resistive elements are:

- SQ ____ - Standard wire wound (all welded construction)
- MSQ ____ - Metal oxide core (low inductance, high resistance)
- NSQ ____ - Non-Inductively wound (Ayrton-Perry Method, all welded construction)

- Operating temperature range
- Wire wound : -55°C ~ + 155°C
 - Metal oxide : -30°C ~ + 155°C

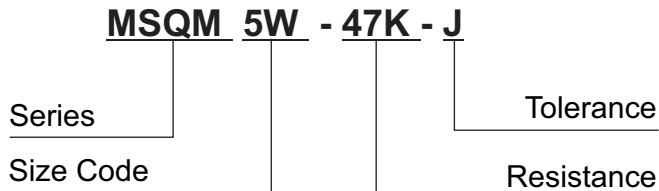
DIMENSION (mm) & RESISTANCE RANGE



Series	Dimension (mm)											Resistance Range	
	W	D	L	C	K	E	G	H	I	J	P	Wire Wound	Metal Oxide
												SQ_	MSQ_
SQH5W	10	9	22	10.5	10	5	4	4	4	1.5	5	0.1Ω ~ 200Ω	50Ω ~ 50KΩ
SQH7W	10	9	35	10.5	10	5	4	4	4	1.5	5	0.1Ω ~ 300Ω	100Ω ~ 50KΩ
SQH10W	10	9	48	10.5	10	5	4	4	4	1.5	10	0.1Ω ~ 500Ω	100Ω ~ 50KΩ
SQH20W	14	14	60	15	15	6.5	5.5	5.5	5.5	2.5	10	0.1Ω ~ 680Ω	100Ω ~ 50KΩ
SQH25W	14	14	60	15	15	6.5	5.5	5.5	5.5	2.5	10	0.1Ω ~ 820Ω	100Ω ~ 50KΩ

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

PART NUMBER EXAMPLE



RESISTANCE RANGE

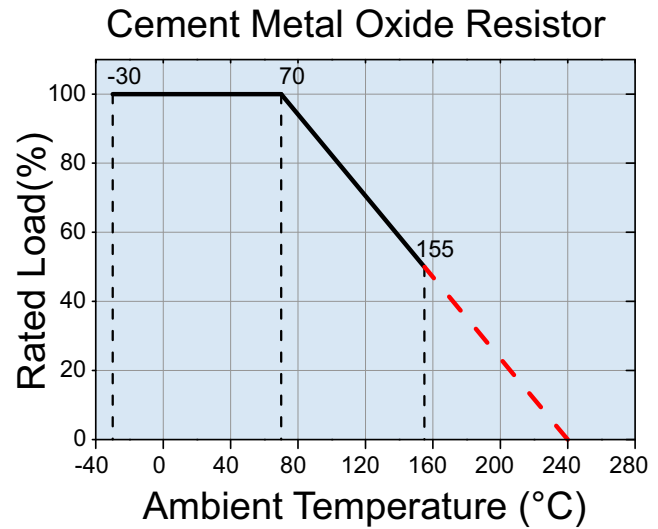
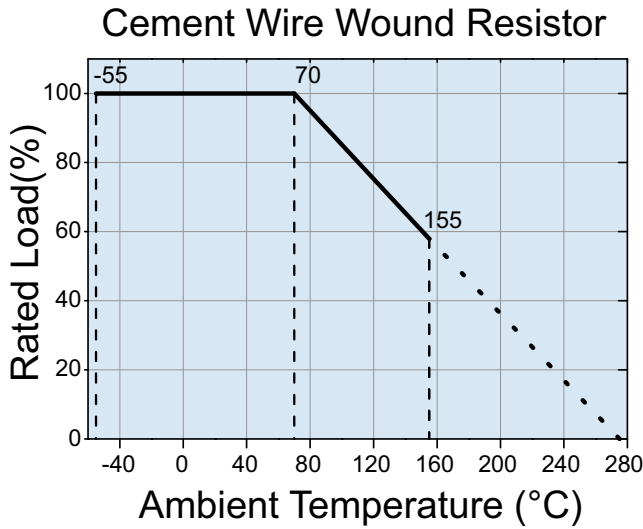
Ohms	0.22	2.0	22	220	2.2K	22K
Code	0R22	2R0	22R	220R	2K2	22K

TOLERANCE other tolerance on request

Tolerance	± 1%	± 2%	± 5%	± 10%
Code	F	G	J	K

NOTE: All Specifications subject to change without notice.

■ **POWER DERATING CURVE**



■ **ELECTRICAL CHARACTERISTICS**

Test Items	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-C-5202 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-C-5202 7.9 40 ± 2°C, 90~95% RH at RCWV for 1000 hrs (1.5hrs on ; 0.5hr off)	±(5%+0.05Ω)	±(1.5%+0.05Ω)
Solder Ability	JIS-C-5202 6.5 235 ± 5°C for 2 ± 0.5 seconds	95% min. Coverage	95% min. Coverage
Pulse Overload	JIS-C-5202 5.8	Max. 1500V	Max. 1500V
	4 times RCWV for 10,000 cycles (1 sec. on; 25 secs. Off)	±(1%+0.05Ω)	±(1%+0.05Ω)
Dielectric Withstanding Voltage		Max. 1000V	Max. 1000V

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

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