

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:

SQT____ - Standard wire wound
(all welded construction)

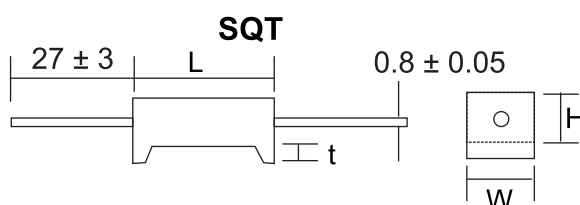
MSQT____ - Metal oxide core
(low inductance, high resistance)

NSQT____ - Non-Inductively wound
(Ayrton-Perry Method, all welded construction)

Operating temperature range

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

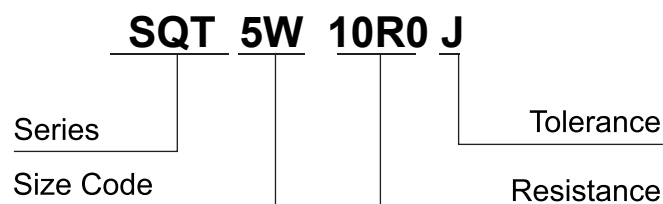
DIMENSION (mm) & RESISTANCE RANGE



Series	Dimension (mm)				Resistance Range		Max. Working Voltage (V)
					Wire Wound	Metal Oxide	
	W ± 1	H ± 1	L ± 0.5	t ± 0.03	SQT_	MSQT_	
SQT5W	10	9	22	1.5	0.1Ω ~ 100Ω	100Ω ~ 100KΩ	350V
SQT7W	10	9	35	3	0.1Ω ~ 220Ω	100Ω ~ 47KΩ	500V
SQT10W	10	9	48	3	0.1Ω ~ 270Ω	100Ω ~ 47KΩ	750V
SQT15W	12.5	12.5	48	3	0.1Ω ~ 100Ω	100Ω ~ 47KΩ	750V
SQT20W	13	14	60	5	0.1Ω ~ 100Ω	100Ω ~ 47KΩ	750V
SQT25W	13	14	60	5	0.1Ω ~ 100Ω	100Ω ~ 47KΩ	750V

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

PART NUMBER EXAMPLE



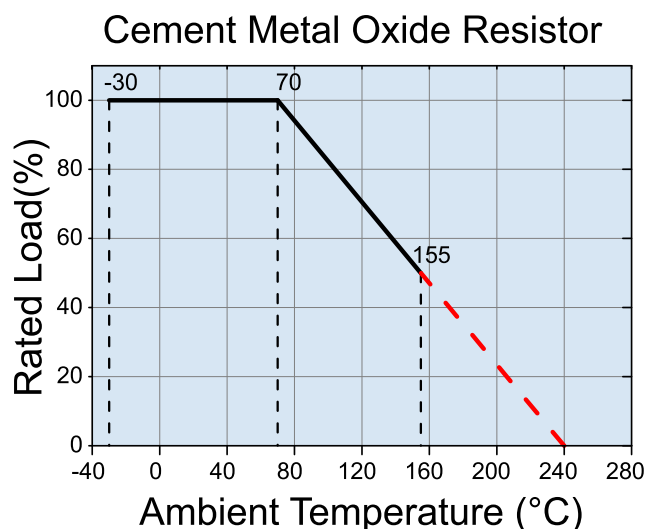
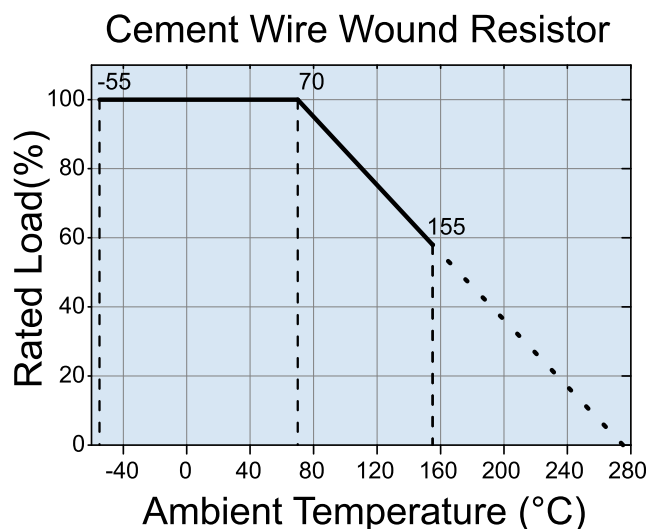
RESISTANCE RANGE

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

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) = $\sqrt{\text{POWER.RATING.} \times \text{RESISTANCE.VALUE}}$