

<b>PRODUCT : CEMENT TYPE RESISTOR</b>	<b>TYPE : SQP-2W/3W/5W/7W/10W/15W/20W</b>
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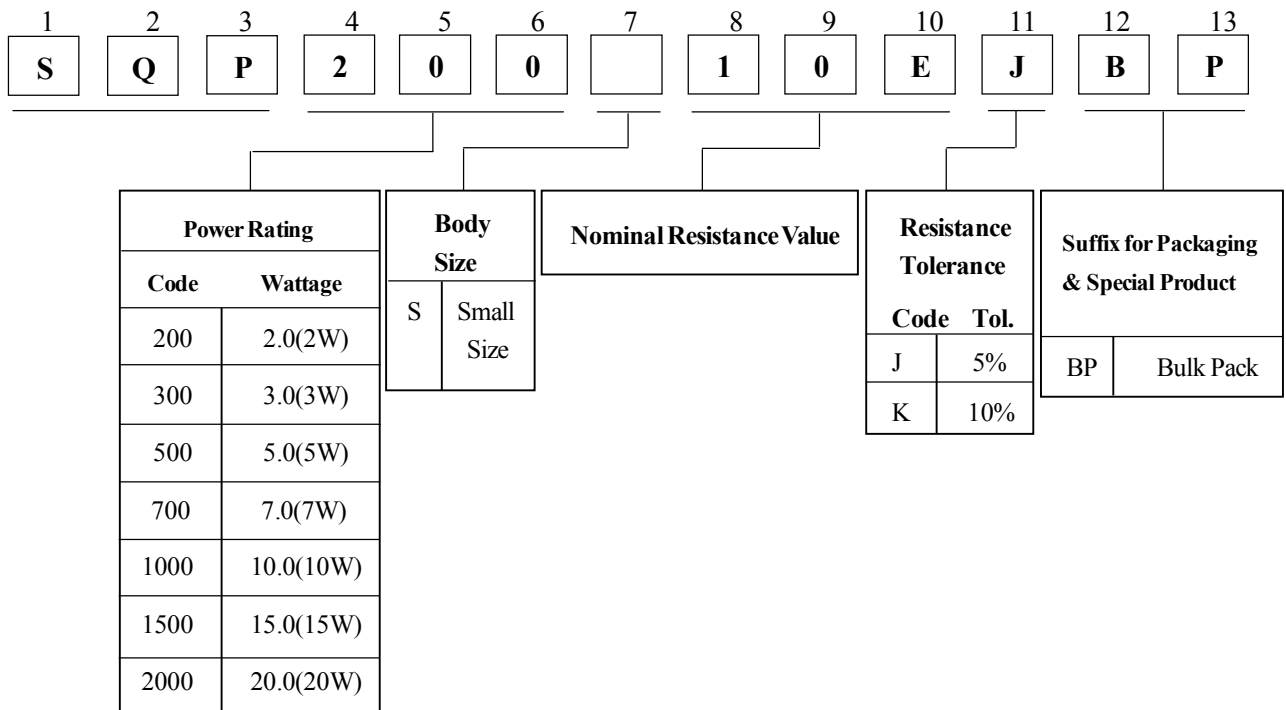
**1. APPLICABLE SCOPE :**

- 1.1 This specification is for use in CEMENT TYPE RESISTOR
- 1.2 Characteristics and Specifications are according to those of :
  - MIL-STD-105
  - MIL-STD-202
  - JIS C 5202
  - GB 5731-85
  - IEC 115-2-1-1982
  - QC 400101

**2. TYPE**

It is composed of description , rated wattage , nominal resistance , tolerance and packaging.

2.1 Explanation of part numbers :



2.2 Example of expression :

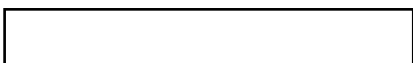
Miniature type (small size) is available.

Part Number

Description

SQP 200 10E J BP

Cement Type Resistor, 2W, 10 Ω , +/-5% tolerance , bulk pack.





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#### 4. CHARACTERISTICS :

TABLE - 2

DC RESISTANCE VALUE	TEST METHOD MIL-STD-202 ITEM 303	TEMPERATURE $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . AQL 0.25%.
SHORT TIME OVERLOAD	TEST METHOD JIS C 5202 ITEM 5.5	RATED VOLTAGE $\times 2.5$ TIMES OR MAX.WORKINGVOLTAGE $\times 2$ TIMES. ABOVE TEST 5 SEC. THE RESISTANCE VALUE CHANGE RATE SHALL BE WITHIN $\pm(2.5\%R+0.05\ \Omega)$ .
SOLDERABILITY OF TERMINAL	TEST METHOD MIL-STD-202 ITEM 210	$260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 10 $\pm$ 1SEC. AFTER TESTING, LEAVE FOR 3 HOURS. THE RESISTANCE VALUE CHANGE RATE SHALL BE WITHIN $\pm(1\%R+0.05\ \Omega)$ .
VIBRATION WITHSTAND	TEST METHOD MIL-STD-202 ITEM 204	X, Y, Z-EACH DIRECTION 2 HOURS. AMPLITUDE 0.75MM. RANGE : 10HZ ~ 500HZ. THE RESISTANCE VALUE CHANGE RATE SHALL BE WITHIN $\pm(1\%R+0.05\ \Omega)$ .
LOAD LIFE	TEST METHOD MIL-STD-202 ITEM 108	$70^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . 1000 HOURS RATED VOLTAGE (1.5 HOURS ON, 0.5 HOUR OFF) THE RESISTANCE VALUE CHANGE RATE SHALL BE WITHIN $\pm(5\%R+0.1\ \Omega)$ .
RESISTANCE TEMPERATURE COEFFICIENT	TEST METHOD MIL-STD-202 ITEM 304	THE RESISTANCE VALUE CHANGE RATE SHALL BE AS TABLE - 3.
LOAD LIFE IN HUMIDITY	TEST METHOD MIL-STD-202 ITEM 103	THE RESISTANCE VALUE CHANGE RATE SHALL BE WITHIN $\pm(5\%R+0.05\ \Omega)$ .

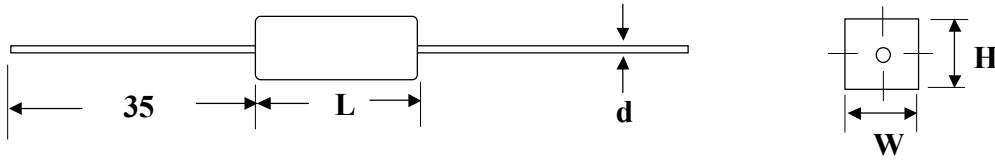
NOTE : RESISTORS SHALL BE EXAMINED FOR EVIDENCE OF NO MECHANICAL DAMAGE,  
ARCING AND BREAKDOWN AFTBER THE TEST.

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5. SQP TYPE DIMENSIONS :

TABLE - 3



Unit : mm

TYPE	W $\pm$ 1	H $\pm$ 1	L $\pm$ 1	d $\pm$ 0.05	RESISTANCE VALUE RANGE 阻值範圍	
					WIREWOUND RODS	VALUE CUT RODS
SQP200	7	7	18	0.60	0.1 $\Omega$ - 50 $\Omega$	51 $\Omega$ - 24K $\Omega$
SQP300	8	8	22	0.78	0.1 $\Omega$ - 50 $\Omega$	51 $\Omega$ - 33K $\Omega$
SQP500	10	9	22	0.78	0.1 $\Omega$ - 50 $\Omega$	51 $\Omega$ - 50K $\Omega$
SQP700	10	9	35	0.78	0.1 $\Omega$ - 50 $\Omega$	51 $\Omega$ - 50K $\Omega$
SQP1000	10	9	48	0.78	0.1 $\Omega$ - 50 $\Omega$	51 $\Omega$ - 50K $\Omega$
SQP1500	13	12	48	0.78	1 $\Omega$ - 200 $\Omega$	201 $\Omega$ - 150K $\Omega$
SQP2000	12.5/14	12.5/13	63/60	0.78	1 $\Omega$ - 200 $\Omega$	201 $\Omega$ - 150K $\Omega$