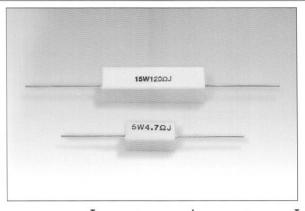


Supply \* Sub Assemblies \* Taping/ Forming Components Co. Reg. No: 45730100K

## Cement Resistors



## **FEATURES:**

- **♣** Small volume, vibration resistance, moisture resistance and heat resistance.
- Low noise. The resistance value doesn't change all the year round.
- **▶** Excellent electrical characteristics.
- ❖ Standard tolerance of 5%.
- Lead free and RoHS compliant part.





## CEMENT RESISTOR (SQP)

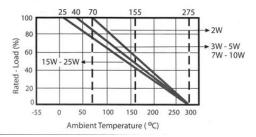
WATTAGE		FIN	RES. VALUES RANGES (Ohm)				
	L±1	W ± 1	H±1	T ± 3	d ± 0.05	WIRE WOUND	METAL OXIDE RODS
1W	13.20	5.50	5.50	30.00	0.60	0.01 ~ 100	110Ω~ 100K
2W	18.00	8.00	7.00	32.00	0.78	0.01 ~ 180	200Ω~ 100K
3W	22.00	8.00	8.00	32.00	0.78	0.02 ~ 680	750Ω~ 100K
5W	22.00	10.00	9.00	32.00	0.78	0.02 ~ 680	750Ω~ 100K
7W	35.00	10.00	9.00	33.00	0.78	0.03 ~ 820	910Ω~ 100K
10W	48.00	10.00	9.00	35.00	0.78	0.05 ~ 2K7	3KΩ~ 100K
15W	48.00	12.50	11.50	35.00	0.78	0.05 ~ 2K7	3KΩ~ 100K
20W / 25W	60.00	14.00	14.00	35.00	0.78	0.1 ~ 4K7	5K1Ω~ 100K

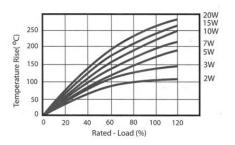
<sup>\*</sup>Non-Inductive type up to 50 \( \omega\$ only.

## CHARACTERISTICS

TEST ITEMS	CONDITIONS	SPEC.	
Short Time Overload	2.5 times RCWV for 5 seconds.	$\pm (2\% + 0.05\Omega)$	
Dielectric Withstanding Voltage	V-Block for 60 seconds	$\pm(0.5\% + 0.05\Omega)$	
Temperature Coefficient of Resistance	Room Temp. ±100 °C	±300ppm/°C	
Insulation Resistance	In V-Block for 60 seconds	>100MΩ	
Solderability	235 °C for 5 ±0.5 seconds	95% min. coverage	
Pulse Overload	4 times RCWV 10000 cycles (1sec. on , 25 sec. off)	±(3% + 0.05Ω)	
Load Life In Humidity	40 ±2 °C , 90~95% RH at RCWV for 1000 hrs. (1.5 hrs.on , 0.5 hrs.off)	±(5% + 0.05 \O)	
Load Life	70 °C at RCWV for 1000 hrs. (1.5 hrs. on , 0.5 hrs. off)	±(5% + 0.05Ω)	
Resistance To Soldering Heat	350 °C ±10 °C for 3 ±0.5 seconds	±(1% + 0.05Ω)	

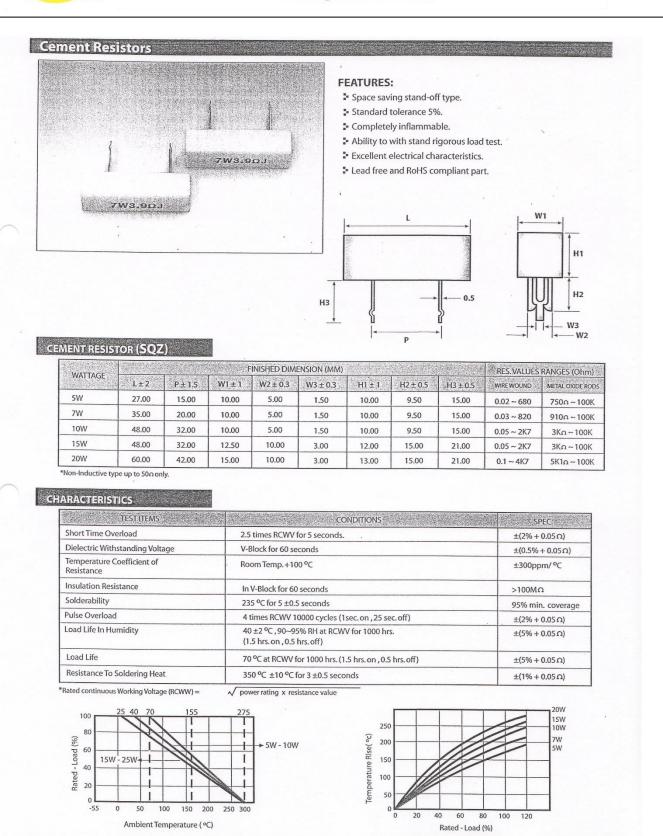
<sup>\*</sup>Rated continuous Working Voltage (RCWW) =  $\sqrt{\text{power rating x resistance value}}$ 







Supply \* Sub Assemblies \* Taping/ Forming Components Co. Reg. No: 45730100K





Supply \* Sub Assemblies \* Taping/ Forming Components Co. Reg. No: 45730100K

# FEATURES: Space saving stand-off type. Small size, High power capacity. Standard tolerance 5%. Exceptionally Small and Sturdy. Lead free and RoHS compliant part. W U A.5+2/-1

## CEMENT RESISTOR (SQM)

WATTACE		RES. VALUES RANGES (Ohm)				
WATTAGE	W ± 1	( , , , D±1 )	H±1	d±0.05	WIRE WOUND	METAL OXIDE RODS
2W	11.00	7.00	20.00	0.78	0.01 ~ 180	200Ω ~ 100K
3W	13.00	8.00	25.00	0.78	0.02 ~ 680	750Ω ~ 100K
5W	13.00	9.00	25.00	0.78	0.02 ~ 680	750Ω ~ 100K
7W	13.00	10.00	39.00	0.78	0.03 ~ 820	910Ω∼100K
10W	13.00	10.00	_ 51,00	0.78	0.05 ~ 2K7	3KΩ~ 100K

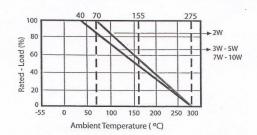
5.0 ± 0.5

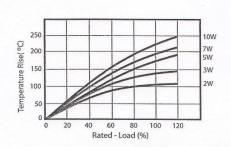
## CHARACTERISTICS

TEST ITEMS	CONDITIONS	SPEC
Short Time Overload	2.5 times RCWV for 5 seconds.	±(2% + 0.05Ω)
Dielectric Withstanding Voltage	V-Block for 60 seconds	±(0.5% + 0.05Ω)
Temperature Coefficient of Resistance	Room Temp. +100 °C	±300ppm/°C
Insulation Resistance	In V-Block for 60 seconds	>100MΩ
Solderability	235 °C for 5 ±0.5 seconds	95% min. coverage
Pulse Overload	4 times RCWV 10000 cycles (1sec. on , 25 sec. off)	±(2% + 0.05Ω)
Load Life In Humidity	40 ±2 °C , 90~95% RH at RCWV for 1000 hrs. (1.5 hrs. on , 0.5 hrs. off)	±(5% + 0.05Ω)
Load Life	70 °C at RCWV for 1000 hrs. (1.5 hrs. on , 0.5 hrs. off)	±(5% + 0.05Ω)
Resistance To Soldering Heat	350 °C ±10 °C for 3 ±0.5 seconds	±(1% + 0.05Ω)

<sup>\*</sup>Rated continuous Working Voltage (RCWW) =

<sup>√</sup> power rating x resistance value





<sup>\*</sup>Non-Inductive type up to 50 nonly.



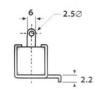
Supply \* Sub Assemblies \* Taping/ Forming Components Co. Reg. No: 45730100K

## **Cement Resistors**

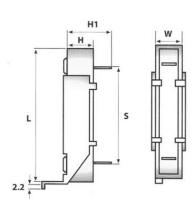


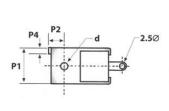
## **FEATURES:**

- Standard tolerance 5%, 10%.
- : Completely inflammable.
- ♣ Rectangular, clamp mounting Type.
- Lead free and RoHS compliant part.



S





P3

P4

SQH 2 type

P1

0.7 L

SQH 1 type

## **CEMENT RESISTOR (SQH)**

WATTAGE		FINISHED DIMENSION (MM)									
	L	Н	W	S	H1	P1	P2	P3	P4	d	
10W	48.0 ± 1.5	10.5 ± 1.0	10.5 ± 1	33.0 ± 2	19.5 ± 1.0	11.0 ± 0.2	6.0	8.0	3.0	3.8	
15W	48.0 ± 1.5	12.5 ± 1.0	12.5 ± 1	33.0 ± 2	20.5 ± 1.0	11.0 ± 0.2	6.0	8.0	3.0	3.8	
20W	63.5 ± 2.0	12.5 ± 1.0	12.5 ± 1	48.0 ± 2	20.5 ± 1.0	11.0 ± 0.2	6.0	8.0	3.0	3.8	
25W	63.5 ± 2.0	16.0 ± 1.0	16.0 ± 1	46.0 ± 2	28.0 ± 1.5	11.0 ± 0.2	6.0	10.0	3.0	3.8	
30W	70.0 ± 2.0	19.0 ± 1.0	18.0 ± 2.0	56.0 ± 2	28.0 ± 1.5	18.0 ± 0.2	8.0	10.0	3.0	4.2	
40W	90.0 ± 3.0	19.0 ± 1.0	18.0 ± 2.0	71.0 ± 2	28.0 ± 1.5	18.0 ± 0.2	8.0	10.0	3.0	4.2	

