

**水泥電阻器(SQZ)系列**

**POWER RANGE: 3W~30W**

**CM-SQZ TYPE**

**CEMENT FIXED RESISTOR**

**FEATURE**

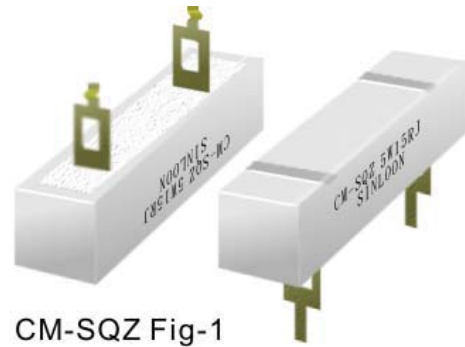
- Exceptionally small and sturdy, mechanically safe, Excellent electrical characteristic
- Tolerance of  $\pm 5\%$  and  $\pm 10\%$  are standard.
- Non-inductive type are available on request.
- Heat and flame resistance
- The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities, They will withstand the most rigorous loading test.
- As resistors in radio and television receiver, The hazardous conditions of smoking and reheat can be completely prevented by the proper choice of power resistors.
- For high resistance value, The winding core will be replaced by metal oxide film core (RS Type)
- Applicable specifications: EIA RS-344 and EIA RC-649

**ORDERING INFROMATION**

Example: CM-SQZ5W10R0J ( 5W 22R  $\pm 5\%$ )

Type	Power	Resistance ( $\Omega$ )	Tolerance
CM-SQZ	3W	0.1R = R100	H = $\pm 3\%$
CM-SQZ	5W	1R00 = 1R00	J = $\pm 5\%$
CM-SQZ	7W	10R0 = 10R0	K = $\pm 10\%$
CM-SQZ	10W	100R = 101	
CM-SQZ	15W	1K = 102	
CM-SQZ	20W	10K = 103	
CM-SQZ	30W		

**FIGURE**



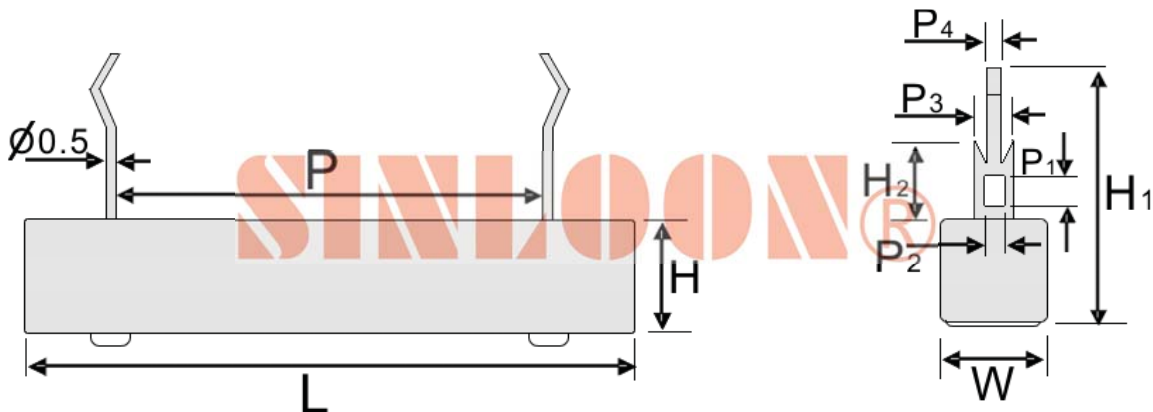
CM-SQZ Fig-1

**DIMENSION**

TYPE	Dimension (mm)									
	L	H	W	P	H1	H2	P1	P2	P3	P4
3W	24.0 $\pm$ 1.5	9.0 $\pm$ 1.0	9.0 $\pm$ 1.0	12.5 $\pm$ 1.0	24.0 $\pm$ 1.0	9.5 $\pm$ 1.0	4.0 $\pm$ 0.2	2.0 $\pm$ 0.2	5.0 $\pm$ 0.2	1.4 $\pm$ 0.1
5W	27.0 $\pm$ 1.5	9.0 $\pm$ 1.0	9.0 $\pm$ 1.0	15.0 $\pm$ 1.0	24.0 $\pm$ 1.0	9.5 $\pm$ 1.0	4.0 $\pm$ 0.2	2.0 $\pm$ 0.2	5.0 $\pm$ 0.2	1.4 $\pm$ 0.1
7W	35.0 $\pm$ 1.5	9.0 $\pm$ 1.0	9.0 $\pm$ 1.0	22.0 $\pm$ 1.5	24.0 $\pm$ 1.0	9.5 $\pm$ 1.0	4.0 $\pm$ 0.2	2.0 $\pm$ 0.2	5.0 $\pm$ 0.2	1.4 $\pm$ 0.1
10W	48.0 $\pm$ 1.5	9.0 $\pm$ 1.0	9.0 $\pm$ 1.0	32.0 $\pm$ 1.5	24.0 $\pm$ 1.0	9.5 $\pm$ 1.0	4.0 $\pm$ 0.2	2.0 $\pm$ 0.2	5.0 $\pm$ 0.2	1.4 $\pm$ 0.1
15W	48.0 $\pm$ 1.5	13.0 $\pm$ 1.5	13.0 $\pm$ 1.5	35.0 $\pm$ 1.5	35.0 $\pm$ 1.5	15 $\pm$ 1.5	7.0 $\pm$ 0.2	6.0 $\pm$ 0.2	10 $\pm$ 0.2	2.7 $\pm$ 0.1
20W	64.0 $\pm$ 2.5	13.0 $\pm$ 1.5	13.0 $\pm$ 1.5	50.0 $\pm$ 1.5	35.0 $\pm$ 1.5	15 $\pm$ 1.5	7.0 $\pm$ 0.2	6.0 $\pm$ 0.2	10 $\pm$ 0.2	2.7 $\pm$ 0.1
30W	75.0 $\pm$ 2.5	20.0 $\pm$ 1.5	19.0 $\pm$ 1.5	56.0 $\pm$ 1.5	35.0 $\pm$ 1.5	12 $\pm$ 1.5	7.0 $\pm$ 0.2	5.0 $\pm$ 0.2	10 $\pm$ 0.2	2.8 $\pm$ 0.1

\* Resistance Range for standard resistance, Below of over this resistance request.

\* Non-inductive type up 50 $\Omega$  only.



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DATA RATING

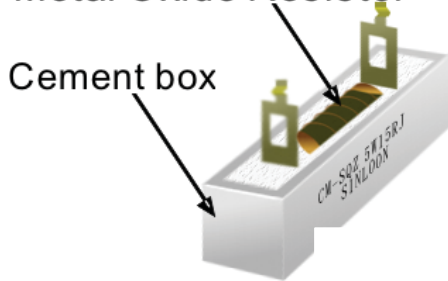
TYPE	Value Range (Ω)		Max working
	Wire Wound	Metal oxide	Voltage
3W	0.1~50	50~2.4K	300V
5W	0.1~50	50~3.6K	350V
7W	0.1~50	50~4.7K	500V
10W	0.1~100	50~6.8K	500V
15W	0.1~100	50~7.5K	500V
20W	0.1~100	100~10K	500V
30W	0.1~100	100~10K	1KV

ENVIRONMENTAL CHARACTERISTICS

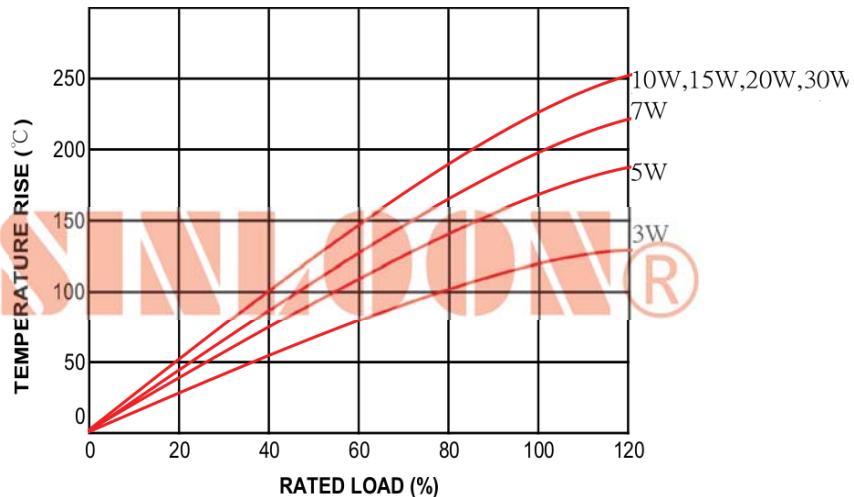
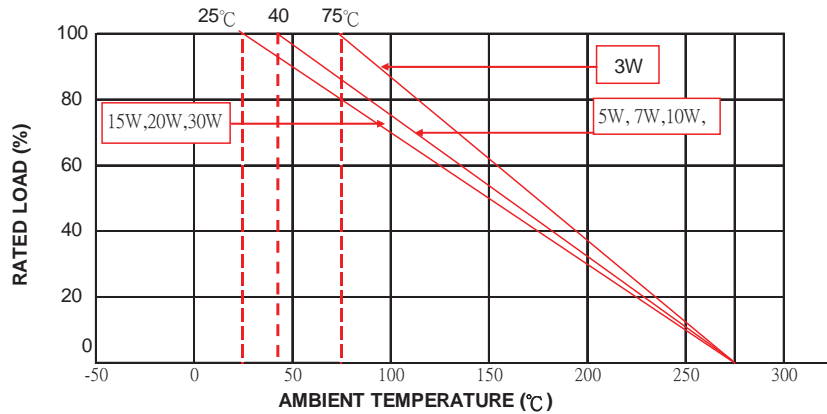
PERFORMANCE TEST	APPRAISE
Short Time Overload	±2%+0.05Ω
Dielectric Withstanding Voltage	±2%+0.05Ω
Temperature Coefficient	MAX. 300ppm/oC
Insulation Resistance	≥ 100 MΩ
Solderability	95% min. coverage
Resistance to Solvent	no deterioration
Terminal Strength	2.5KG/24.5N
Pulse Overload	±2%+0.05Ω
Load Life in Humidity	±5%+0.05Ω
Load Life	±5%+0.05Ω
Temperature Cycling	±2%+0.05Ω
Soldering Heat	±2%+0.05Ω
Mositure resistance	±5%+0.05Ω
Shock and Vibration	±1%+0.05Ω
Effect of Soldering	±2%+0.05Ω

PRODUCT STRUCTURE

Inside Body:  
Wirewound Resistor  
Metal Oxide Resistor



DERATING CURVE



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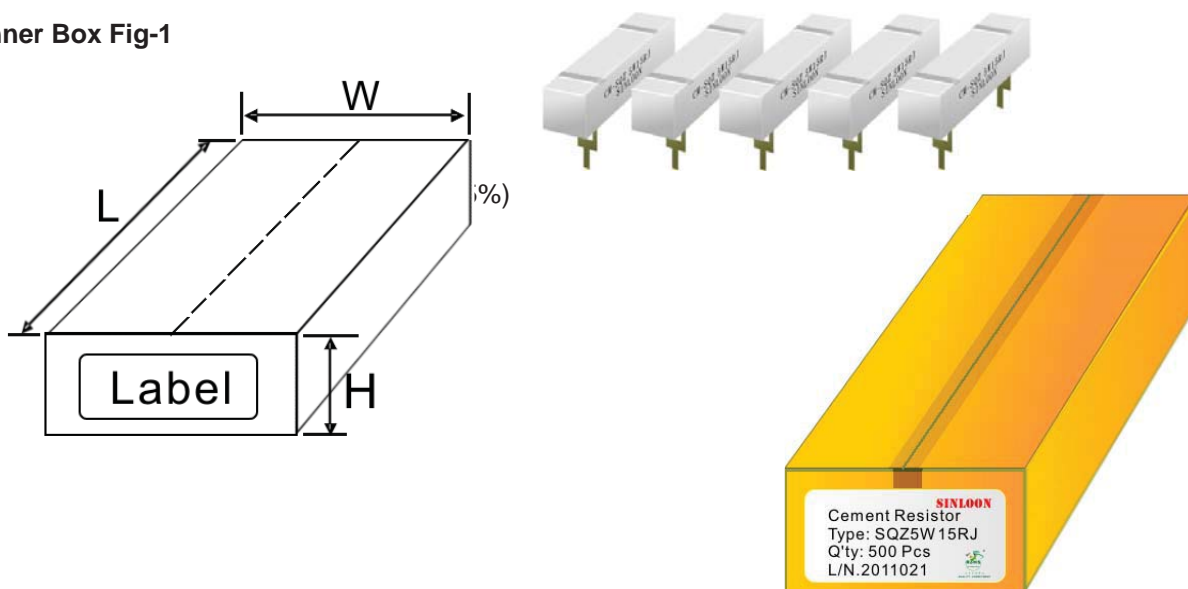
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CEMENT FIXED RESISTOR

☐ PACKING

Type	Inner Box Dimension (cm)			Quantity	Carton Dimension (cm)			Quantity	Wight Gross
	L	W	H		L	W	H		
CM-SQZ									
3W	26	15	11	500	31	27.5	47	4000	
5W	26	15	11	500	31	27.5	47	4000	
7W	26	15	11	500	31	27.5	47	4000	
10W	26	15	11	500	31	27.5	47	2000	
15W	26	15	11	250	31	27.5	47	2000	
20W									
30W									

Inner Box Fig-1



Carton Fig-2



※美隆電子產品規格特性參數的改變或更新,將不會另行通知。

※Mayloon characteristic parameters of electronic product specification changes or updates without prior notice .

