



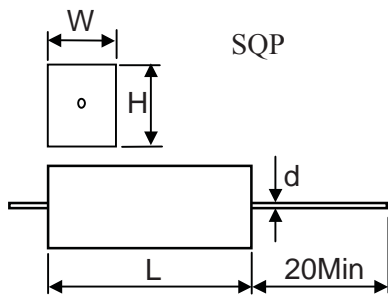
General Resistors

Cement Resistors - SQP, SQM, SQT, SQH, SQZ Series / 水泥电阻

SQ Series Resistor are made by winding resistance wires around non-alkaline ceramic core or metal oxide film rod, which is added with a layer of heat and humidity resistant and non-corrosive protective material. Token offers wide range including SQP, SQM, SQZ, and SQH.

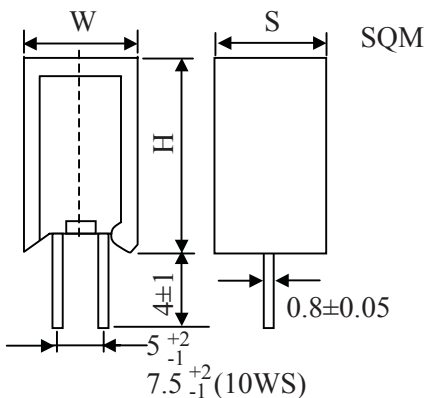


► Cement SQP Resistor Dimensions



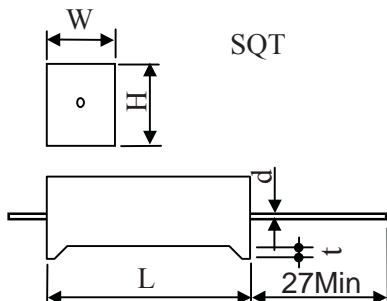
Type	Dimension (mm)				Resistance Range (Ω)	
	W \pm 1	H \pm 1	L \pm 1.5	d \pm 0.05	SQP	RS+SQP
2W	7	7	18	0.5~0.6	0.1~82	
3W	8	8	22	0.7~0.8	0.1~180	181~33K
5W	10	9	22	0.7~0.8	0.1~180	181~50K
7W	10	9	35	0.7~0.8	0.1~430	431~50K
10W	10	9	48	0.7~0.8	0.1~470	471~50K
15W	12.5	11.5	48	0.7~0.8	0.5~600	601~150K
20W-25W	14	13.5	60	0.7~0.8	0.8~1K	1.1~150K

► Cement SQM Resistor Dimensions



Type	Dimension (mm)			Resistance Range (Ω)	
	H \pm 1.5	W \pm 1	S \pm 1	SQM	RS+SQM
2W	20	12	8	0.1-8.0	81-50K
3W	25	12	8	0.1-180	181-50K
5W	25	13	9	0.1-180	181-50K
7W	39	13	9	0.1-430	431-47K
10W	51	13	12	0.1-470	471-47K
10WS	35	16	12	0.1-430	431-47K

► Cement SQT Resistor Dimensions



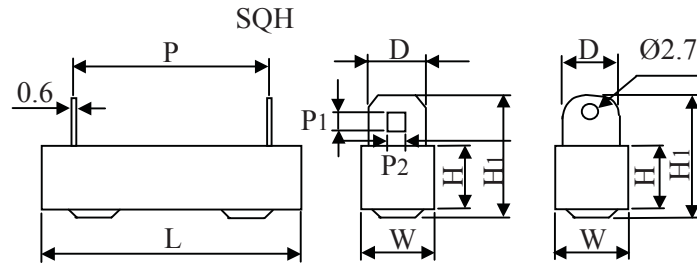
Type	Dimension (mm)				Resistance Range (Ω)	
	H \pm 1.5	W \pm 1	L \pm 1	t \pm 1	SQT	RS+SQM
3W	9	10	22	1.5	0.1-180	181-50K
5W	9	10	22	1.5	0.1-180	181-50K
7W	9	10	35	3.0	0.1-430	431-47K
10W	9	10	48	3.0	0.1-470	471-47K





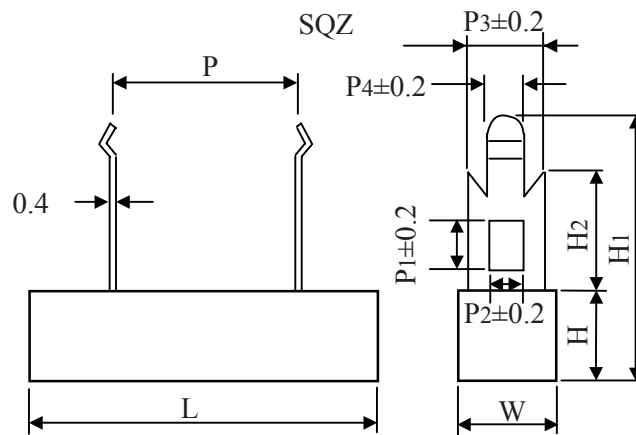
General Resistors

► Cement SQH Resistor Dimensions



Type	Dimension (mm)								Resistance Range (Ω)		MaxWorkingVoltage
	W±1	H±1	L±1.5	P±1	H1±1	D±0.5	P1±0.2	P2±0.2	SQH	RS+SQH	
10W	10	9	48	32	21	5	2.5	2	0.1~500	500~50K	500V
15W	12.5	11.5	48	32	21	5	2.5	2	1~1K	1K~150K	600V
20W	14.5	13.5	60	43	24	6	3.0	2.5	1~2K	2K~150K	700V
30W	19	19	75	56	29	6	3.0	2.5	1~2K		700V
40W	19	19	90	67	29	6	3.0	2.5	2~3K		700V
50W	19	19	90	67	29	6	3.0	2.5	2~3K		700V

► Cement SQZ Resistor Dimensions



Type	Dimension (mm)											Resistance Range (Ω)	
	SQZ L±1.5	W±1	H±1	P±1.5	P1	P2	P3	P4	H1±1	H2±1	SQZ	RS+SQZ	
5W	25(28)	10	10	9.5(15)	4.2	2	5	1.5	25	10.5	0.1-130	131-50K	
7W	36	10	10	20	4.2	2	5	1.5	25	10.5	0.1-430	431-50K	
10W	48	10	10	32	4.2	2	5	1.5	25	10.5	0.2-470	471-50K	
15W	48	12.5	12	32	4.2	2	5	1.5	26	10.5	1-600	601-150K	
20.25W	60	15	13	42	7	6	10	2.7	36	15.0	1-1K	1.1K-150K	

► Cement Resistor Electrical Performance

TEST ITEMS	CONDITION	SPEC.
Resistance Temp Coeff.	-30°C~ 200°C	±300ppm / °C
Short Time Over Load	2.5 times of rated wattage for 5 sec.	±2 %
Rated Load	Rated wattage for 30 min.	±1 %
Voltage Withstanding	800 v AC 1 min.	no charge
Temp. Cycle	-30°C~ 85°Cfor 5 cycles	±1 %
Load Life	70°C on-off cycle 1000hrs.	±5 %
Moisture-proof Load Life	40°C95% RH on-off cycle 500 hrs.	±5 %
Incombustibility	16 times of rated wattage for 5 min.	not flammed



General Resistors

► How to Order

SQP

❶

5W

❷

100 R

❸

J

❹

Bulk

❺

- ❶ Product type
- ❷ Rated Power
- ❸ Resistance Value (Ω)
- ❹ Resistance Tolerance
- ❺ Packaging