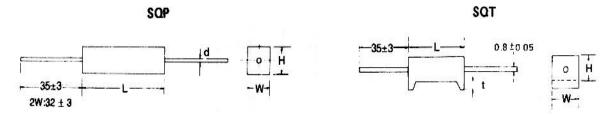
FIXED WIRE WOUND RESISTORS

(CEMENT TYPE)

Features:

- 1 Materials used are all non-inflammable. So that even if overcurrent flows, no self-ignition occurs, thus giving high safety.
- 2 Hermetically sealed. Sealed in a highly insulated box type cased with special cement.
- 3 Highly heat resistant and moisture resistant. High mechanical strength.
- 4 Can be mounted with high degree of safety. High heat radiation effect. Box type closely bonded to the chassis. Most suitable for printed wiring.
- 5 Use TH-SQZ, TH-SQH type according to the condition of the place where it is mounted and the way it is mounted.
- 6 Can be used as complying with safety standards, such as UL Standard. Electric Apparatus Control Law, etc ...

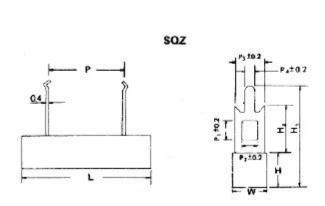


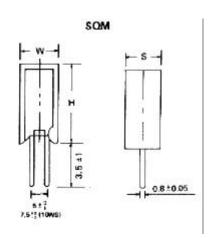
Type	I	Dimensi	on (mm))	Resistance	Max Working	
SQP	W <u>+</u> 1	H <u>+</u> 1	L <u>+</u> 1.5	$d \pm 0.05$	SQP	RS + SQP	Voltage
2W	7	7	18	0.65	0.1~82		15V
3W	8	8	22	0.8	0.1~180	181~33K	350V
5W	10	9	22	0.8	0.1~180	181~50K	350V
7W	10	9	35	0.8	0.1~430	431~50K	500V
10W	10	9	48	0.8	0.1~470	471~50K	750V
15W	12.5	11.5	48	0.8	0.5~600	601~150K	1000V
20W	14	13.5	60	0.8	0.5~1K	1.1K~150K	1000V
25W	14	13.5	60	0.8	0.5~1K	1.1K~150K	1000V

Type]	Dimensi	Resistance		
SQT	$W\pm 1$	H <u>+</u> 1	L <u>+</u> 1.5	t <u>+</u> 0.5	Range (Ω)
5W	10	9	22	1.5	0.1~50K
7W	10	9	35	3.0	0.1~50K
10W	10	9	48	3.0	0.1~50K

Note: Wirewound (SQT) & Metal Oxide Film (RS+ SQT) resistance-range detail same as SQP type

- Notes: 1. Max Overload Voltage is 2 times of Max Working Voltage.
 - 2. Too low or too high ohmic value can be supplied only case by case.
 - 3. Resistance Value under 0.5 Ω , the tolerance shall be $\pm 10\%$
 - 4. Max Working Voltage is fit for all SQ types



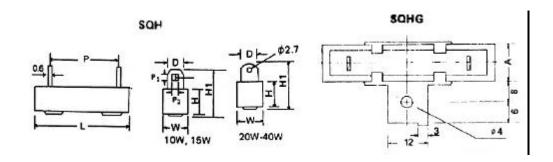


Type	Dimension (mm)										Resistance	e Range(Ω)
SQZ	L±1.5	W <u>+</u> 1	H <u>+</u> 1	P±1.5	P1	P2	Р3	P4	H1 <u>+</u> 1	H2 <u>+</u> 1	SQZ	RS + SQZ
5W	28(25)	10	10	15(9.5)	4.2	2	7	1.5	25	10.5	0.1~130	131~50K
7W	36	10	10	20	4.2	2	7	1.5	25	10.5	0.1~430	431~50K
10W	48	10	10	32	4.2	2	7	1.5	25	10.5	0.2~470	471~50K
15W	48	12.5	12	32	4.2	2	7	1.5	26	10.5	1~600	601~150K
20W	60	15	13	42	7	4	10	3	36	15.0	1~1K	1.1K~150K
25W	60	15	13	42	7	4	10	3	36	15.0	1~1K	1.1K~150K
30W	75	19	19	50	7	4	10	3	36	15.0	1~1K	
40W	75	19	19	50	7	4	10	3	36	15.0	1~1K	
50W	90	19	19	65	7	4	10	3	60	30	1~1K	

Type	Dim	ension (mm)	Resistance	Range(Ω)
SQM	H <u>+</u> 1.5	W <u>+</u> 1	S <u>+</u> 1	SQM	RS + SQM
2W	20	11	7	0.1~82	83Ω~10K
3W	25	12	8	0.1~180	181Ω~50K
5W	25	13	9	0.1~180	181Ω~50K
7W	39	13	9	0.1~430	431Ω~50K
10W	51	13	9	0.1~470	471Ω~75K
10WS	35	16	12	0.1~360	361Ω~100K

FIXED WIRE WOUND RESISTORS

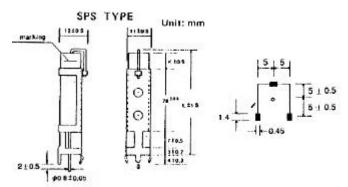
(CEMENT TYPE)



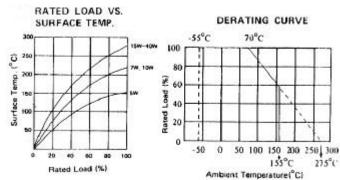
Type	Dimension (mm)								Resistance	Range (Ω)
SQH	W <u>+</u> 1	H <u>+</u> 1	L <u>+</u> 1.5	P	H1 <u>+</u> 1	D <u>+</u> 0.5	P1±0.2	P2 <u>+</u> 0.2	SQH	RS + SQH
10W	10	10	48	32 <u>+</u> 1	21	5	2.5	1.7	0.5~600	601~50K
15W	12.5	12	48	32 <u>+</u> 1	21	5	2.5	1.7	1~600	601~150K
20W	14.5	13.5	60	42 <u>+</u> 1	24	6	3.0	2.5	1~1K	1.1K~150K
30W	19	19	75	55 <u>+</u> 2	31	7.5			1~2K	
40W	19	19	90	67 <u>+</u> 2	31	7.5			1~2K	

Notes:

Max Overload Voltage is 2 times of Max Working Voltage.
Too low or too high ohmic value can be supplied only case by case.



Type	Dimensi	on (mm)	Resistan	ce Range
SPS	L+1.5	K+0.5	SPS	RS + SPS
7W	48	8.5	0.1~430	431~50K
10W	60	20	0.1~470	471~50K



ELECTRICAL PERFORMANCE

Test Items	Condition	Spec.
Resistance Temp. Coeff.	-55°C ~ 155°C	<u>+</u> 300ppm/°C
Short Time Over Load	10 times of rated wattage for 5 sec.	<u>+</u> 2%
Rated Load	Rated wattage for 30 min.	<u>+</u> 1%
Voltage Withstanding	1000V AC 1 min.	no change
Insulation Resistance	500V megger	$1000 \mathrm{M}\Omega$
Temp. Cycle	-30°C ~ 85°C for 5 cycles	<u>+</u> 1%
Load Life	70°C on-off cycle 1000 hrs.	<u>+</u> 5%
Moisture-proof Load Life	40°C 95% RH on-off cycle 1000 hrs.	<u>+</u> 5%
Incombustibility	16 times of rated wattage for 5 min.	not flamed

1. Max Overload Voltage is 2 times of Max Working Voltage.

2. Too low or too high ohmic value can be supplied only case by case

3. "RS + SQ" short time over load is 5 times of rated wattage for 5 sec.