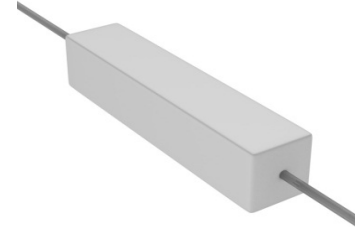


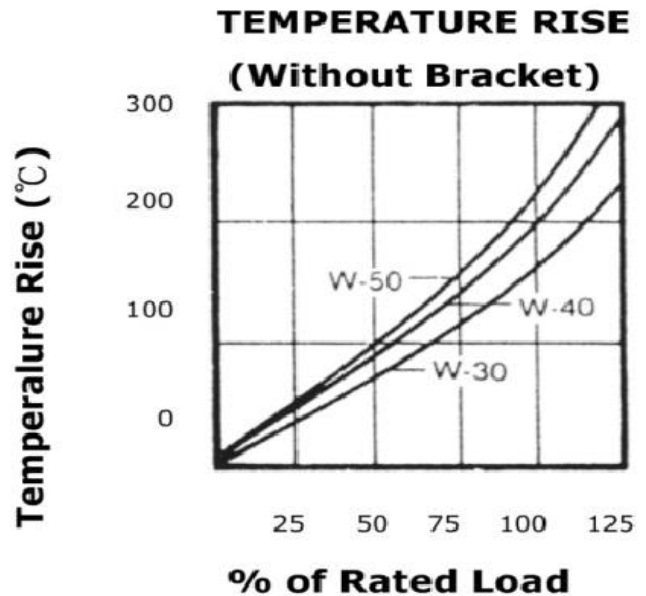
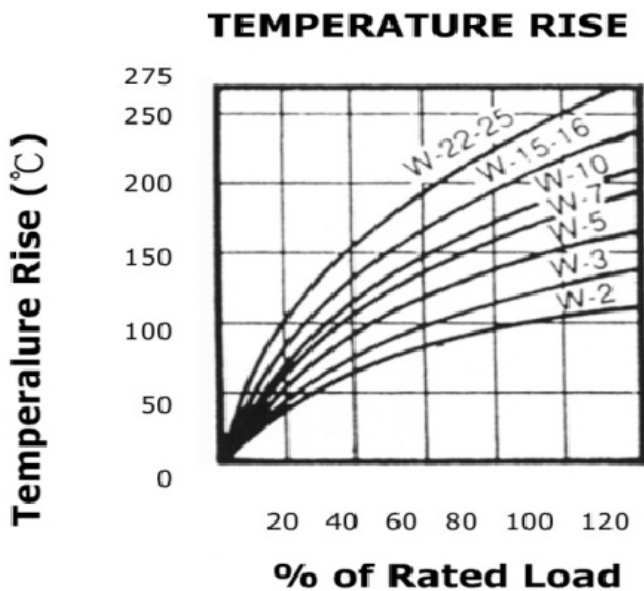
# WIREWOUND RESISTORS RECTANGULAR TYPE

## (MIL TYPE LRW)

1. As applying non-flammable materials, even if over current flows, there will be no self-ignition occurred.
2. Completely insulated character suitable for Printed circuit board mounting
3. Precise resistance value with long life proof.
4. Super heat dissipation; small linear temperature coefficient
5. Instant overload capability; low noise figure and without annual shift on resistance value.
6. For higher resistance value, the winding core is replaced by Metal Oxide Film cutting core (MO)



### Temperature Rise

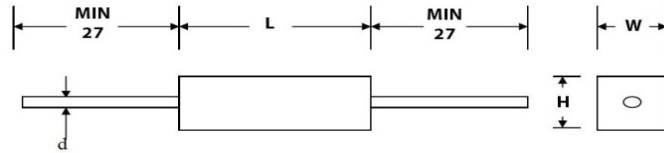


Test Items	Condition	Spec.
Resistance Temp. Coeff.	-55°C ~ +155°C	* ± 300 ppm/°C
Short Time Over Load	5 times of rated wattage for 5 sec.	±2%
Rated Load	Rated wattage 30 min.	±1%
Voltage Durability	1,000V AC 1 min.	not changed
Insulation Resistance	500V megger	500MΩ
Temp. Cycle	- 30°C ~ + 85°C for 5 cycles	±1%
Load Life	70°C on-off cycle 1,000 hrs.	±5%
Moisture-Proof Load Life	40°C 95% RH on-off cycle 1000 hrs.	±3%
Incombustibility	16 times of rated wattage for 5 min.	not flamed

\*Lower TCR available upon request.



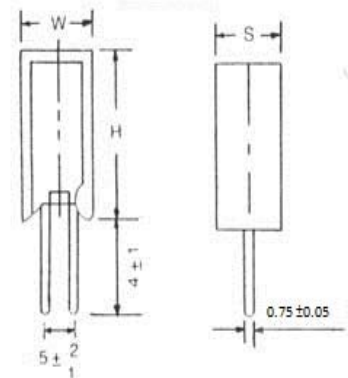
## SQP TYPE



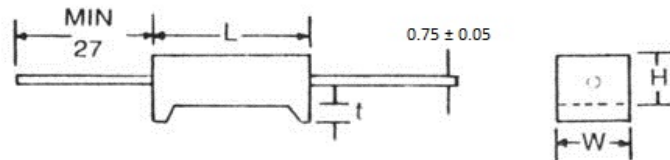
SQP	Dimension(mm)				Resistance Range( $\Omega$ )		Max Working Voltage
	L $\pm 1.5$	W $\pm 1.0$	H $\pm 1.0$	d $\pm 0.05$	Wire Wound	MO	
2W	18.0	7.0	7.0	0.75	0.1~50 $\Omega$	51~200K $\Omega$	150V
3W	22.0	8.0	8.0	0.75	0.1~50 $\Omega$	51~500K $\Omega$	350V
5W	22.0	9.5	9.0	0.75	0.1~50 $\Omega$	51~500K $\Omega$	350V
7W	35.0	9.5	9.0	0.75	0.1~500 $\Omega$	501~100K $\Omega$	500V
10W	48.0	9.5	9.0	0.75	0.1~500 $\Omega$	501~100K $\Omega$	500V
15W	48.0	12.5	12.0	0.75	0.1~1K $\Omega$	1k1~100K $\Omega$	500V
20W	60.0	14.0	13.5	0.75	0.1~1K $\Omega$	1k1~100K $\Omega$	500V
25W	60.0	14.0	13.5	0.75	0.1~1K $\Omega$	1k1~100K $\Omega$	1000V
30W	77.0	18.0	17.0	0.75	0.1~1K $\Omega$		1000V
40W	90.0	19.0	18.0	0.75	0.1~1K $\Omega$		1000V
50W	90.0	19.0	18.0	0.75	0.1~1K $\Omega$		1000V

## SQM TYPE

Type	Dimension(mm)			Resistance Range( $\Omega$ )	
	H $\pm 1.5$	W $\pm 1$	S $\pm 1$	Wire Wound	MO
2W	20	11	7.5	0.1~50 $\Omega$	51~500 $\Omega$
3W	25	12	9	0.1~50 $\Omega$	51- 47K $\Omega$
5W	25	13	9	0.1~50 $\Omega$	51- 47K $\Omega$
7W	39	13	9	0.1~500 $\Omega$	501- 47K $\Omega$
10W	51	13	9	0.1~500 $\Omega$	501- 47K $\Omega$
10WS	35	16	12	0.1~500 $\Omega$	501- 47K $\Omega$



## SQT TYPE

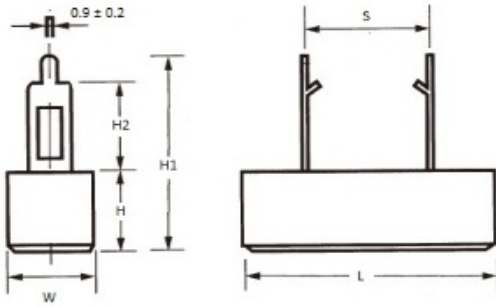


Type	Dimension(mm)				Resistance Range( $\Omega$ )	
	W $\pm 1$	H $\pm 1$	L $\pm 1.5$	t $\pm 1.5$	Wire Wound	MO
5W	10	9	22	1.5	0.1~50 $\Omega$	51 $\Omega$ ~47K $\Omega$
7W	10	9	35	3	0.1~500 $\Omega$	501~47K $\Omega$
10W	10	9	48	3	0.1~500 $\Omega$	501~47K $\Omega$
15W	12.5	12.5	48	3	0.1~500 $\Omega$	501~47K $\Omega$
20W	13	14	60	5	0.1~500 $\Omega$	501~47K $\Omega$

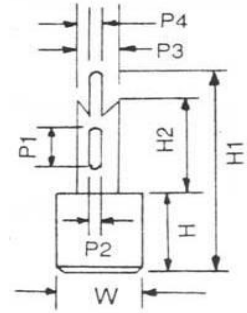
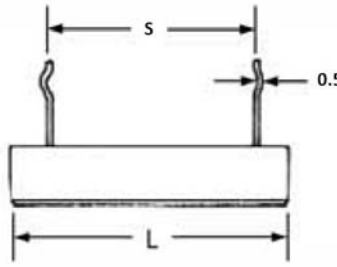


# SQZ TYPE

A TYPE

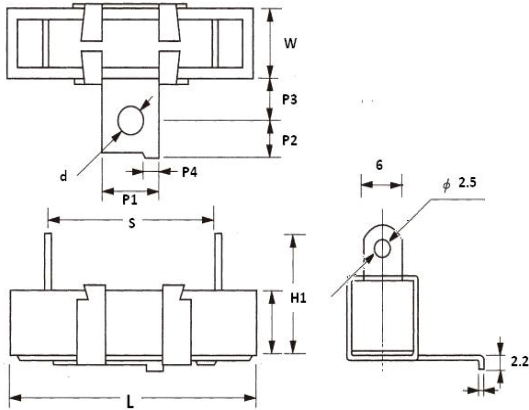


B TYPE

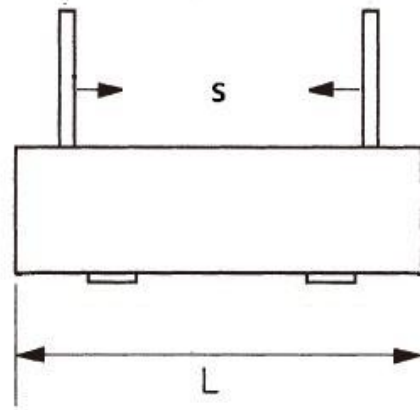


Type A+B	Power Rating (W)	Resistance Range(Ω)		Dimension(mm)									
		Wire Wound	MO	L ± 2	H ± 1	W ± 1	S ± 1.5	H1 ± 1	H2 ± 1	P1	P2	P3	P4
SQZ-5	5	0.1Ω~200Ω	201Ω50KΩ	27.0	9.5	9.5	15.0	24(30)(40)	9.5(15)(25)	4.0	2.0	7.5	1.5
SQZ-7	7	0.1Ω~200Ω	201Ω100KΩ	35.0	9.5	9.5	22	24(30)(40)	9.5(15)(25)	4.0	2.0	7.5	1.5
SQZ-10	10	0.2Ω~500Ω	501Ω100KΩ	48.0	9.5	9.5	33	24(30)(40)	9.5(15)(25)	4.0	2.0	7.5	1.5
SQZ-15	15	0.5Ω~600Ω	601Ω100KΩ	48.0	12.5	12.5	33	34.5	15.0	7.0	6.0	10.0	2.7
SQZ-20	20	0.5Ω~1KΩ	1.1KΩ100KΩ	63.5	12.5	12.5	42	34.5	15.0	7.0	6.0	10.0	2.7
SQZ-3S	3	0.1Ω~50Ω	—	22.0	9.5	9.5	10.0	23.0	12.0	4.0	2.0	7.5	1.5
SQZ-5S	5	0.1Ω~50Ω	—	25.0	9.5	9.5	10.0	24.0	12.0	4.0	2.0	7.5	1.5

# SQHG TYPE

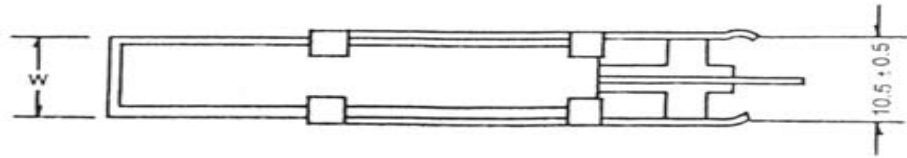


# SQH TYPE

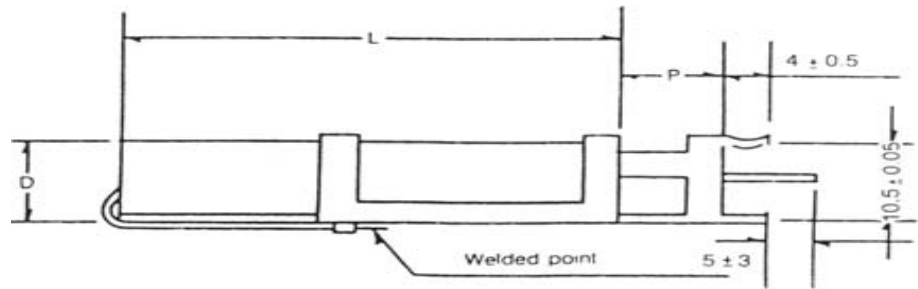


Type A+B	Power Rating (W)	Resistance Range(Ω)		Dimension(mm)									
		Wire Wound	MO	L ± 2	H ± 1	W ± 1	S ± 1	H1 ± 1	P1 ± 1	P2 ± 1	P3 ± 1	P4 ± 1	d
SQH-10	10	0.5Ω~500Ω	501Ω - 50KΩ	48.0	10.0	10.0	33	21	12	6	8.0	3.0	4
SQH-15	15	0.5Ω~600Ω	601Ω - 150KΩ	48.0	12.0	12.0	33	21	12	6	8.0	3.0	4
SQH-20	20	0.5Ω~1KΩ	1.1KΩ-150KΩ	63.7	12.0	12.0	42	24	12	6	8.0	3.0	4
SQH-30	30	0.1Ω~2KΩ	—	75.0	19.0	18.0	56	30	17	8	10.0	3.0	4
SQH-40	40	0.1Ω~2KΩ	—	90.0	19.0	18.0	68	30	17	8	10.0	3.0	4



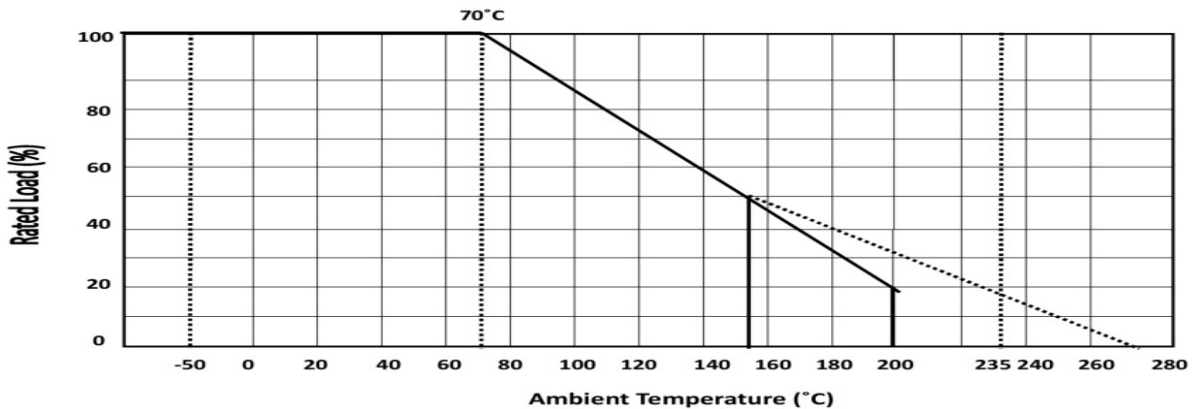


## SPS TYPE



Type	Dimension(mm)			Resistance Range		
	W ±1	D ±1	L ±1	P ±1	Wire Wound	MO
SPS-5	10	9	22	5	0.1Ω~50Ω	51Ω~50KΩ
SPS-7	10	9	35	10	0.1Ω~500Ω	501Ω~50KΩ
SPS-10	10	9	48	10	0.1Ω~500Ω	501Ω~50KΩ
SPS-15	10	13	48	10	0.1Ω~1KΩ	1K1Ω~150KΩ
SPS-20	10	13	60	10	0.1Ω~1KΩ	1K1Ω~150KΩ

## Derating Curve



## Parts Number System

SQP	—	5W	101	J	B
Type of Cement Resistor		Wattages	Resistance	Tolerance	Packing Code
			3 Digit code for 5% tolerance 101=100Ω R10=0.1Ω 4R7=4.7Ω 4 Digit code for 1% tolerance	J = ±5% F = ±1%	B=Bulk Pack

