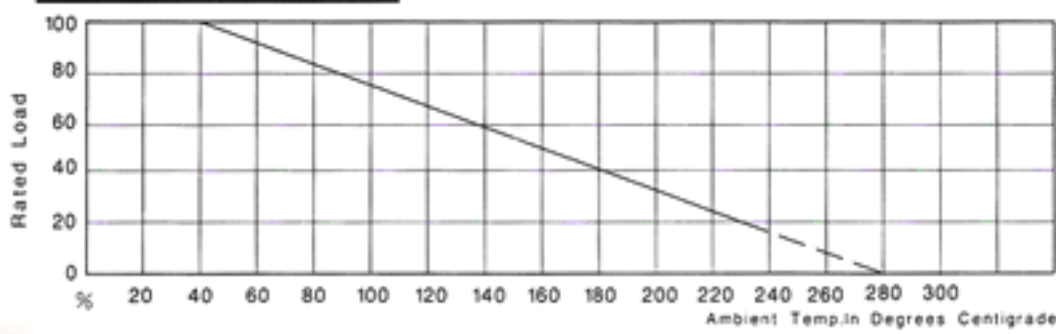
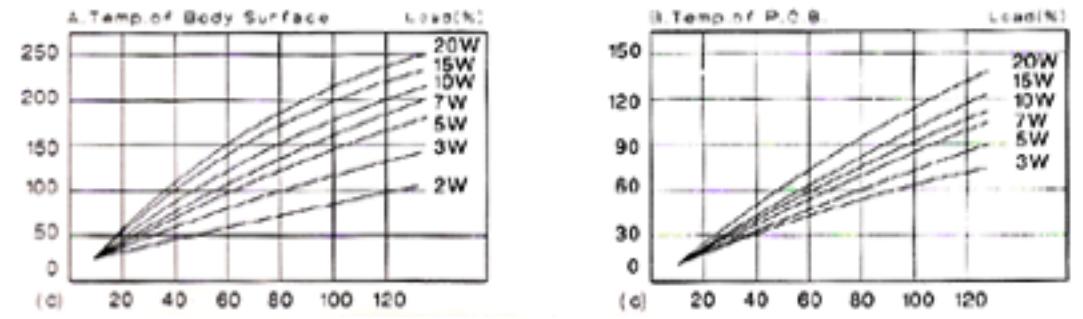


RESISTOR SERIES CEMENT TYPE RESISTORS

Power Derating Curve



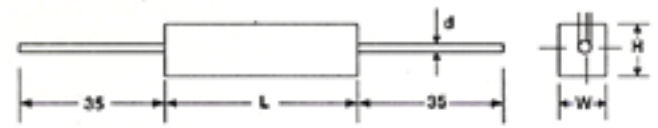
Temp. Rise Curve



● **Dimensions**

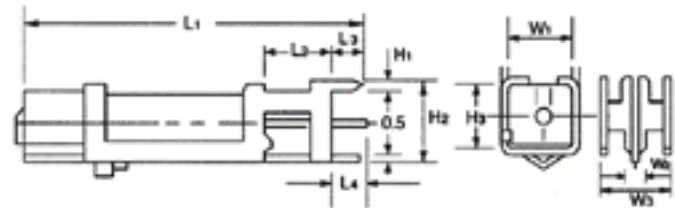
SQP Type

Watt	Dimensions(mm)				Ohm()
	L±2.0	W±1.0	H±1.0	d±0.05	
2	18	6.5	6.5	0.80	0.1~100
3	22	8.0	8.0	0.80	0.1~100
5	22	10.0	9.5	0.80	0.1~100
7	35	10.0	9.5	0.80	0.5~500
10	48	10.0	9.5	0.80	0.5~1K
15	48.5	12.5	11.5	0.80	0.5~1K
20	60	15.0	13.5	0.80	0.5~1K
25	60	15.0	13.5	0.80	0.5~1K



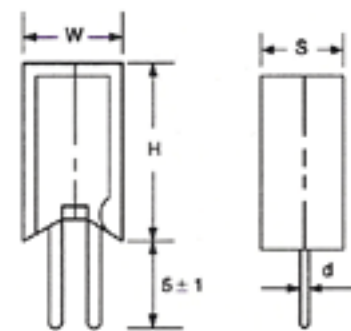
SQS Type

Watt	Dimensions(mm)										Ohm()
	L1	L2	L3	L4	H1	H2	H3	W1	W2	W3	
5	31	5	4	6	1.5	11	9.5	10	1.5	10.5	0.47-220
7	49	10	4	6	1.5	11	9.5	10	1.5	10.5	0.51-470
10	62	10	4	6	1.5	11	9.5	10	1.5	10.5	1.0-680
15	62.5	10	4.5	6.5	2.5	14	12.5	12.5	2.5	13.5	1.0-820
20	75	10	5	6.5	2.7	14.5	13	14.5	2.7	15	1.0-1K



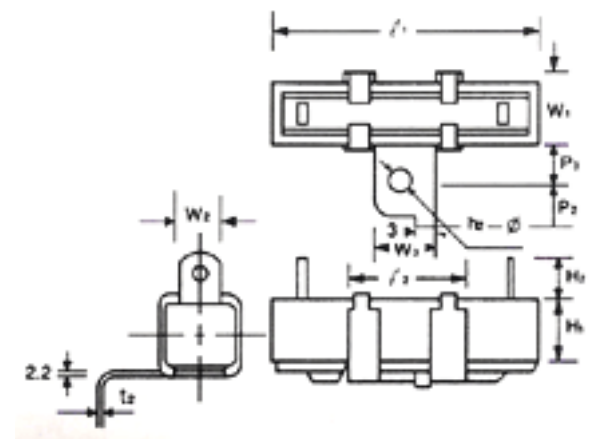
SQM Type

Watt	Dimensions(mm)				Ohm()
	W	H	S	d±0.1	
3	12	25	8	0.8	0.24-220
5	13	25	9	0.8	0.30-220
7	13	39	9	0.8	0.51-470
10	13	51	9	0.8	1.0-680



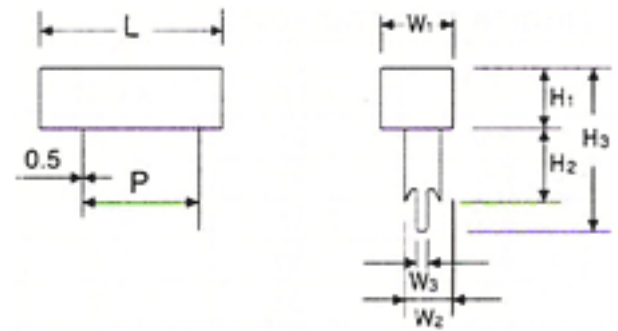
SQH Type

Watt	Dimensions(mm)											Ohm()
	L1	L2	W3	P2	P3	T2	h2	W1	W2	H1	H2	
10	48±1.5	24	12±0.2	6	8	0.6	4	9.5±1.0	5	9.5±1.0	6+1.5	1.0-680
15	48±1.5	24	12±0.2	6	8	0.8	4	12.5±1.2	6	12.5±1.2	7.5+1.5	1.0-820
20	13.5±2.0	24	12±0.2	6	10	0.8	4	12.5±1.2	5	12.5±1.2	7.5+2	1.0-1K
30	75±2.5	29	18±0.2	6	10	0.8	4.2	19±1.5	7.5	19±1.5	10+2	1.5-1.5K
40	90±2.5	29	18±0.2	6	10	0.8	4.2	19±1.5	7.5	19±1.5	10+2	1.8-2K



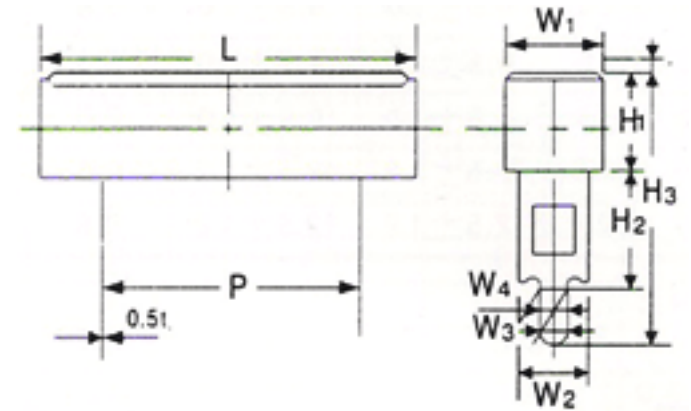
SQZA Type

Watt	Dimensions(mm)								Ohm()
	L	P	W1	W2	W3	H1	H2	H3	
5	27	15	9.5	5.3	0.9	9.5	10	25.5	0.47-220
7	35	22.5	9.5	5.3	0.9	9.5	10	25.5	0.68-470
10	48	35	9.5	5.3	0.9	9.5	10	25.5	1.0-680



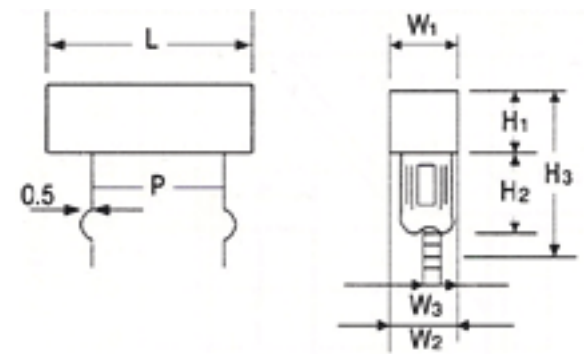
SQZB Type

Watt	Dimensions(mm)									Ohm()
	L	P	W1	W2	W3	W4	H1	H2	H3	
15	48	32.5	12.5	10	2.7	3	12.5	15	34.5	1.0-820
20	63.5	50	12.5	10	2.7	3	12.5	15	34.5	1.0-1K



SQZC Type

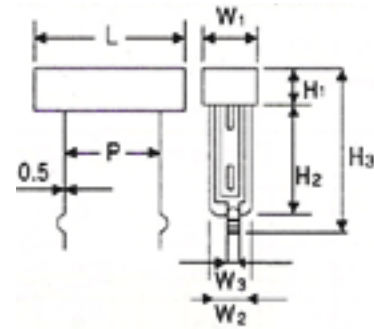
Watt	Dimensions(mm)								Ohm()
	L	P	W1	W2	W3	H1	H2	H3	
5	27	15	9.5	7.3	1.6	9.5	10	24	0.47-680
7	35	22.5	9.5	7.3	1.6	9.5	10	24	0.68-100
10	48	35	9.5	7.3	1.6	9.5	10	24	1.0-1500



SQZD Type

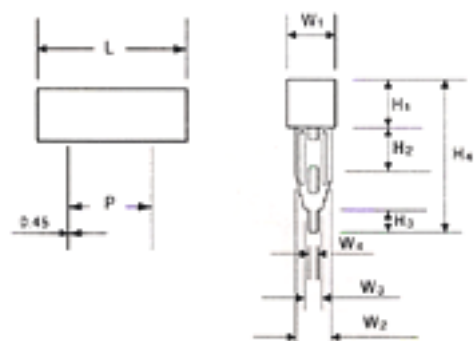
Watt	Dimensions(mm)								Ohm()
	L	P	W1	W2	W3	H1	H2	H3	
5	27	15	9.5	7.5	1.6	9.5	25	29.5	0.47-680
7	35	22.5	9.5	7.5	1.6	9.5	25	29.5	0.68-100
10	48	35	9.5	7.5	1.6	9.5	25	29.5	1.0-1500
15	48	32.5	12.5	10	3	12.5	30	35	1.0-820
20	63.5	50	12.5	10	3	12.5	30	35	1.0-1K

(5,7,10W)



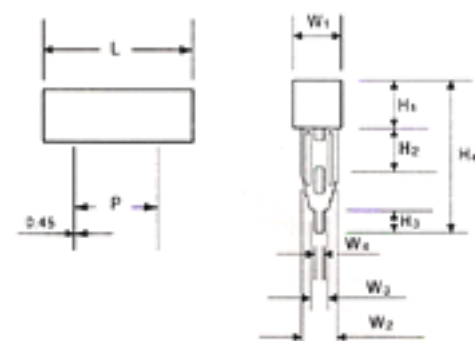
SQZE Type

Watt	Dimensions(mm)									Ohm()	
	L	P	W1	W2	W3	W4	H1	H2	H3		H4
5	27	15	9.5	7.4	5.5	3	9.5	7.5	4.5	30.4	0.47-220
7	35	22.5	9.5	7.4	5.5	3	9.5	7.5	4.5	30.4	0.68-470
10	48	35	9.5	7.4	5.5	3	9.5	7.5	4.5	30.4	1.0-680



SQZI Type

Watt	Dimensions(mm)									Ohm()
	L	P	W1	W2	W3	W4	H1	H2	H3	
15	48	32.5	12.5	2	5	10	12.5	30	47.5	1.0-820
20	63.5	44	12.5	2	5	10	12.5	30	47.5	1.0-1K



● **Characteristics**

Characteristics	Test Method	Standard
Terminal Strength	Pull with 4.5kg	Can withstand
Solderability of Terminal	230 °C, 5 secs, dipping	Not less than 3/4, 230 °C, 5secs, dipping
Effect of Soldering	350 °C, 3 secs	±(1%+0.05 %)
Resistor Body Strength	10kg, 10secs	Can withstand
Vibration Withstanding	10-55-10Hz/1min.1.5m/m, 3 directions 6 hours in total	±(1%+0.05 %)
Dielectric Strength	1000V, 1min applied	±(0.5%+0.05 %)
Insulation Resistance	500V megger	Not less than 100M
Rated Load Characteristic	Rated voltage , 30 min	±2%
Short Time Overload	Rated power x 10 , 5 secs.	±(2%+0.05 %)
Resistance Temperature	-25 ~155	±(2%+0.05 %)
Moisture Load Life	40 ~90-95%,rated power x 1/10,1000Hrs.	±(3%+0.05 %)
Moisture Resistance	DC 100V,500Hrs	±3% not less than 5M
Load Life	Rated power 1000Hrs. 1.5Hrs.ON,0.5Hrs.OFF	±(5%+0.05 %)
Heat Resistance	257 °C, -2Hrs	No abnormality
Thermal Shock	Rated power 30 min. -25 °C , 15min	±(2%+0.05 %)