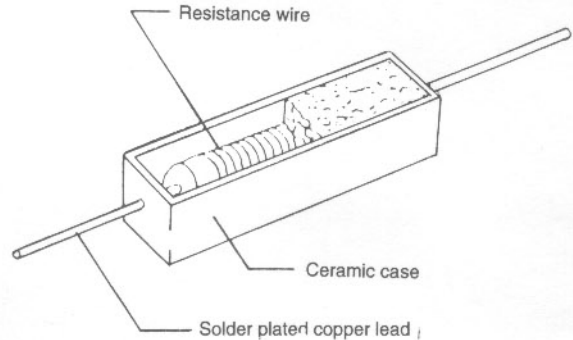


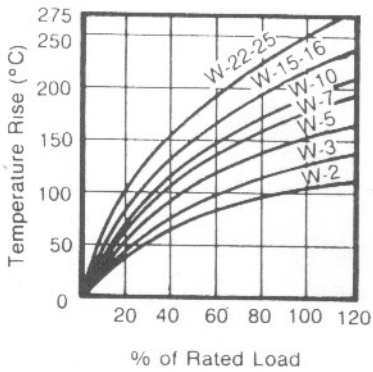
WIREWOUND RESISTORS RECTANGULAR TYPE (MIL TYPE LRW)

Introduction:

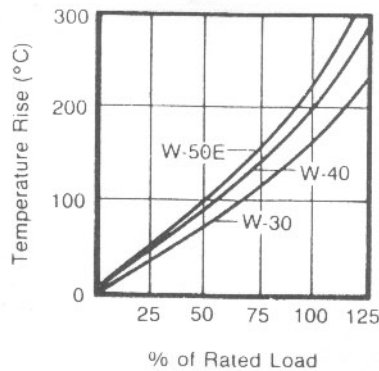
1. As applying non-flammable materials, even if over current flows, there will be no self-ignition occurred.
2. Completely insulated character suitable for printed circuit board mounting
3. Precise resistance value with long life proof.
4. Super heat dissipation; small linear temperature coefficient.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



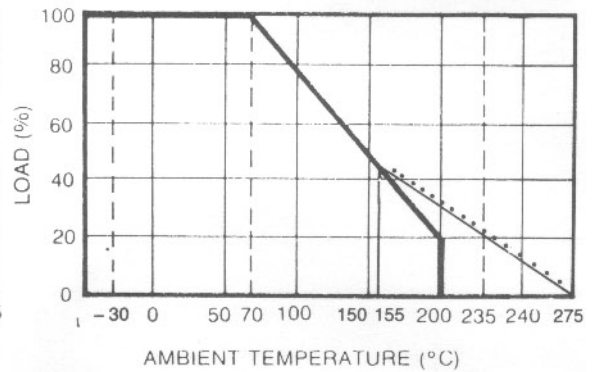
TEMPERATURE RISE AT 25°C



TEMPERATURE RISE AT 25°C
(Without Bracket)

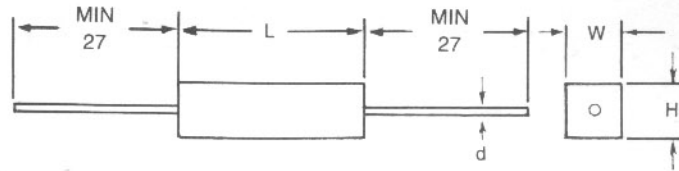


DERATING CURVE



Test Items	Condition	Spec.
Resistance Temp. Coeff	-30°C ~ 155°C	± 300 ppm/°C
Short Time Over Load	5 times of rated wattage for 5 sec.	± 2%
Rate Load	Rate watt 30 min.	± 1%
Voltage Durability	1000V AC 1 min.	not changed
Insulation Resistance	500V megger	500 MΩ
Temp. Cycle	-30°C ~ 85°C 5 cycles	± 1%
Load Life	70°C on-off cycle 1000 hrs.	± 5%
Moisture-proof Load Life	40°C 95% RH on-off cycle 500 hrs.	± 3%
Incombustibility	6 times of rated wattage for 5 min.	not flamed

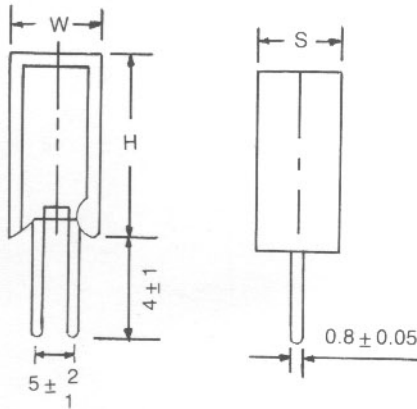
SQP



SQP	DIMENSIONS (mm)				Resistance Range (Ω)		Max Working Voltage
	$L \pm 0.5$	$W \pm 0.5$	$H \pm 0.5$	$d \pm 0.03$	Wire Wound	MO	
2W	18.0	7.0	7.0	0.65	$0.1\Omega \sim 50\Omega$	$51 \sim 20K\Omega$	150V
3W	22.0	8.0	8.0	0.75	$0.1\Omega \sim 50\Omega$	$51 \sim 33K\Omega$	350V
5W	22.0	9.5	9.0	0.75	$0.1\Omega \sim 100\Omega$	$101 \sim 50K\Omega$	350V
7W	35.0	9.5	9.0	0.75	$0.1\Omega \sim 500\Omega$	$501 \sim 50K\Omega$	500V
10W	48.0	9.5	9.0	0.75	$0.1\Omega \sim 500\Omega$	$501 \sim 50K\Omega$	750V
15W	48.0	12.5	12.0	0.75	$0.5\Omega \sim 1K\Omega$	$1K \sim 150K\Omega$	1000V
20W	60.0	14.0	13.5	0.75	$0.5\Omega \sim 1K\Omega$	$1K \sim 150K\Omega$	1000V

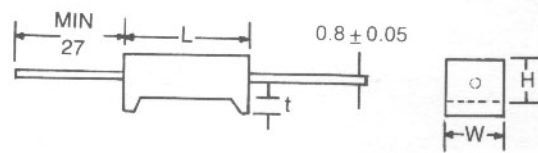
NOTE: Non-Inductive type up to 27 Ω

SQM



Type	Dimension(mm)			Resistance Range(Ω)	
	$H \pm 1.5$	$W \pm 1$	$S \pm 1$	Wire Wound	MO
2W	20	11	7.5	$0.1-50\Omega$	$51-47K\Omega$
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

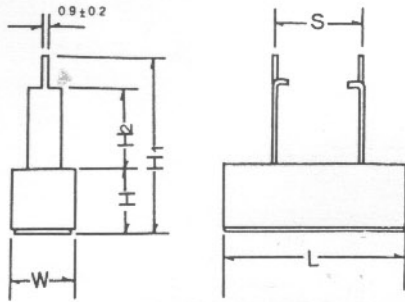


Type	Dimension(mm)				Resistance Range(Ω)	
	$W \pm 1$	$H \pm 1$	$L \pm 1.5$	$t \pm 0.5$	Wire Wound	MO
5W	10	9	22	1.5	$0.1 \sim 50\Omega$	$51 \sim 50K\Omega$
7W	10	9	35	3.0	$0.1 \sim 500\Omega$	$501 \sim 47K\Omega$
10W	10	9	48	3.0	$0.1 \sim 500\Omega$	$501 \sim 47K\Omega$

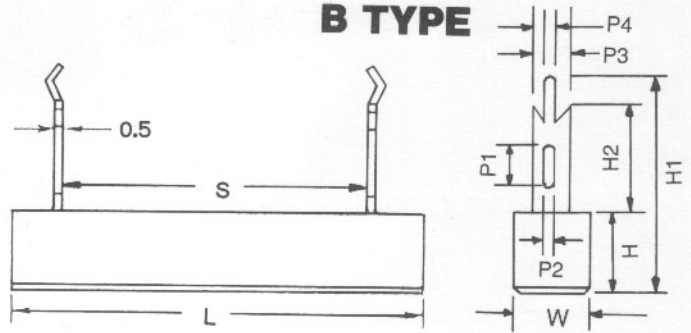
NOTE: values lower than 0.1 OHM and higher than 47 K OHM are available upon request

SQZ

A TYPE



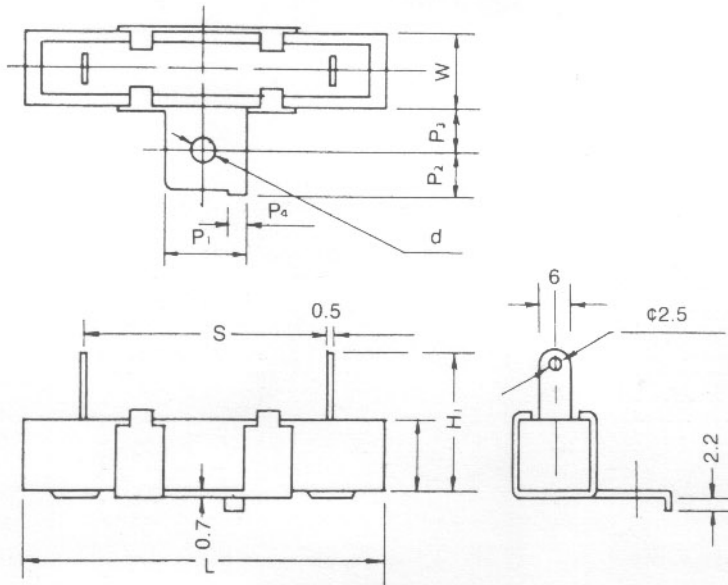
B TYPE



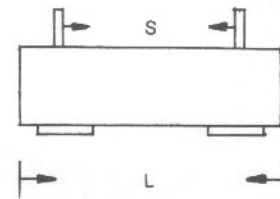
Type A+B	Power Rating (W)	Resistance Range (Ω)		Dimensions (± 1 mm)									
		Wire Wound	MO	L	H	W	S	H1	H2	P1	P2	P3	P4
SQZ-5	5	0.1 Ω ~200 Ω	201 Ω ~50K Ω	27.0	9.5	9.5	15.0	24.0	9.5	4.0	2.0	5.0	1.4
SQZ-7	7	0.1 Ω ~200 Ω	201 Ω ~100K Ω	35.0	9.5	9.5	22	24.0	9.5	4.0	2.0	5.0	1.4
SQZ-10	10	0.2 Ω ~500 Ω	501 Ω ~100K Ω	48.0	9.5	9.5	35	24.0	9.5	4.0	2.0	5.0	1.4
SQZ-15	15	0.5 Ω ~600 Ω	601 Ω ~100K Ω	48.0	12.5	12.5	35	34.5	15.0	7.0	6.0	10.0	2.7
SQZ-20	20	0.5 Ω ~1K Ω	1.1K Ω ~100K Ω	63.5	12.5	12.5	45	34.5	15.0	7.0	6.0	10.0	2.7
SQZ-3S	3	0.1 Ω ~50 Ω	—	22.0	9.5	9.5	10.0	23.0	12.0	4.0	2.0	5.0	1.4
SQZ-5S	5	0.1 Ω ~50 Ω	—	25.0	9.5	9.5	10.0	24.0	12.0	4.0	2.0	5.0	1.4

Note: Resistance up to 50 Ω maximum for Non-Inductive type.

SQHG



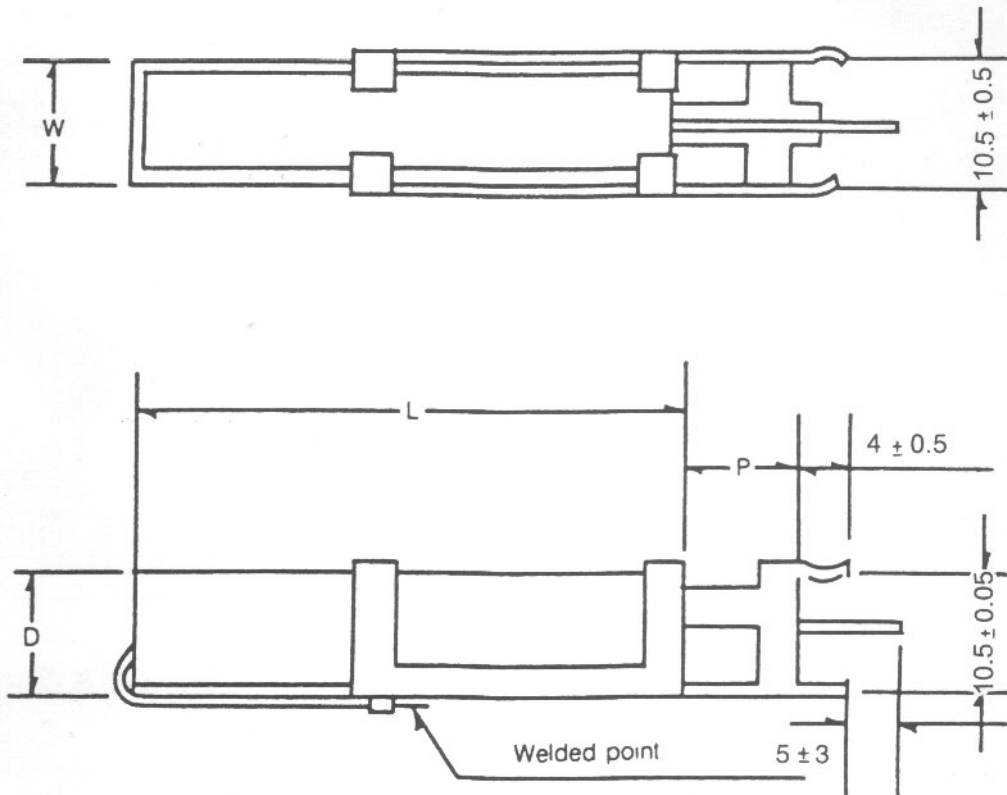
SQH



Type A+B	Power Rating (W)	Resistance Range (Ω)		Dimensions (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	0.5 Ω ~500 Ω	501 Ω ~50K Ω	48.0	10.0	10.0	33	21	12	6	8.0	3.0	4
SQH-15	15	0.5 Ω ~600 Ω	601 Ω ~150K Ω	48.0	12.0	12.0	33	21	12	6	8.0	3.0	4
SQH-20	20	0.5 Ω ~1K Ω	1.1K Ω ~150K Ω	63.7	12.0	12.0	42	24	12	6	8.0	3.0	4
SQH-30	30	0.1 Ω ~2K Ω	—	75.0	19.0	18.0	56	30	17	8	10.0	3.0	4
SQH-40	50	0.1 Ω ~2K Ω	—	90.0	19.0	19.0	68	30	17	8	10.0	3.0	4

Note: Resistance up to 15 Ω maximum for Non-Inductive type.

SPS TYPE



Type	Dimension (mm) ± 1 mm				Resistance Range	
	$W \pm 1$	$D \pm 1$	$L \pm 1$	$P \pm 1$	Wirewound	MO
SPS-5	10	9	22	5	0.1 Ω -50 Ω	51 Ω -50K Ω
SPS-7	10	9	35	10	0.1 Ω -300 Ω	301 Ω -50K Ω
SPS-10	10	9	48	10	0.1 Ω -500 Ω	501 Ω -50K Ω
SPS-15	12	13	48	10	0.1 Ω -1K Ω	1K Ω -50K Ω
SPS-20	12	13	60	10	0.1 Ω -1K Ω	1K Ω -50K Ω