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CEMENT WIREWOUND RESISTORS (MIL TYPE LRW)

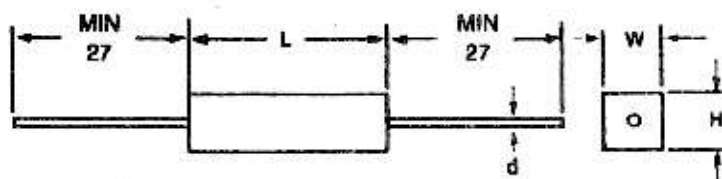
MIL TYPE LRW

Mil type lrw are made by winding the resistance wires on the alkaliess ceramic cores, then coated with noncorrosive, heat-proof and humidity-proof material. Cement type is the one with special flameproof cement stuffed in the ceramic case.

FEATURES

- Small dimension,excellent stability in high temperature,resistant to humidity and shock.
- Completely insulated character suitable for printed circuit board.
- Precision resistance values with longer life.
- In high resistance values,the winding cores will be replaced by power film cores.
- Super heat dissipation;small linear temperature coefficient.
- Instant overload capability; low noise figures and low annual shift on resistance values.

SQP

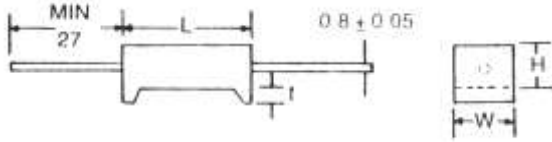


TYPE	DIMENSIONS(mm)				RESISTANCE RANGE (Ω)		MAX WORKING VOLTAGE
	L \pm 1	W \pm 1	H \pm 1	d \pm 1	WIRE WOUND	MO	
2W	18.0	7.0	7.0	0.65	0.01 Ω ~ 50 Ω	50~20K Ω	150V
3W	22.0	8.0	8.0	0.8	0.01 Ω ~ 50 Ω	50~33K Ω	350V
5W	22.0	9.5	9.0	0.8	0.01 Ω ~ 50 Ω	50~50K Ω	350V
7W	35.0	9.5	9.0	0.8	0.01 Ω ~ 500 Ω	500~50K Ω	500V
10W	48.0	9.5	9.0	0.8	0.01 Ω ~ 500 Ω	500~50K Ω	750V
15W	48.0	12.5	12.0	0.8	0.01 Ω ~ 500 Ω	500~150K Ω	1000V
20W	60.0	14.0	13.0	0.8	0.01 Ω ~ 500 Ω	500~150K Ω	1000V
25W	60.0	14.0	13.0	0.8	0.01 Ω ~ 500 Ω	500~150K Ω	1000V

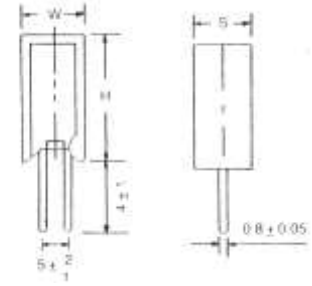
※ NOTE:Non-inductive type up to 27 Ω

※ 30W,40W on request

SQT



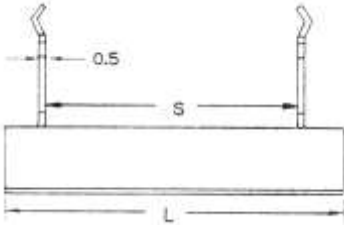
SQM



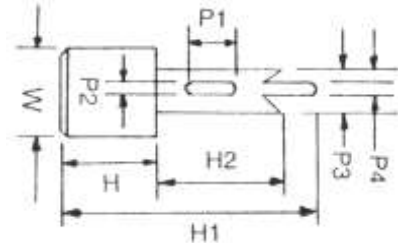
TYPE	DIMENSION(mm)				RESISTANCE RANGE (Ω)	
	W ± 1	H ± 1	L ± 1.5	t ± 0.5	WIRE WOUND	MO
5W	10	9	22	1.5	0.1~50Ω	50Ω~50KΩ
7W	10	9	35	3.0	0.1~500Ω	500Ω~47KΩ
10W	10	9	48	3.0	0.1~500Ω	500Ω~47KΩ

TYPE	DIMENSION(mm)			RESISTANCE RANGE (Ω)	
	H ± 1.5	W ± 1	S ± 1	WIRE WOUND	MO
3W	25	12	9	0.1~50Ω	50~50KΩ
5W	25	13	9	0.1~50Ω	50~50KΩ
7W	39	13	9	0.1~500Ω	500~47KΩ
10W	51	13	9	0.1~500Ω	500~47KΩ

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



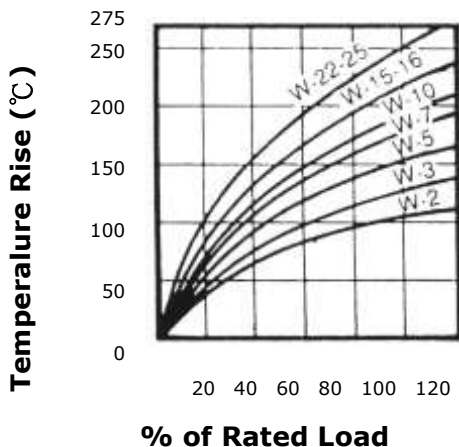
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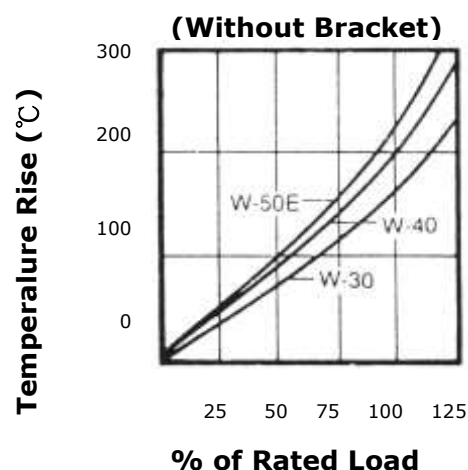
TYPE	RESISTANCE RANGE(Ω)		DIMENSIONS (mm)									
	WIRE WOUND	MO	L ± 1.5	H ± 1	W ± 1	S ± 1.5	H1 ± 1	H2 ± 1	P1 ± 0.2	P2 ± 0.2	P3 ± 0.2	P4 ± 0.2
5W	0.1Ω-100Ω	100Ω-50KΩ	27.0	9.5	9.5	15.0	24.0	9.5	4.0	2.0	5.0	1.4
7W	0.1Ω-500Ω	500Ω-50KΩ	35.0	9.5	9.5	22.5	24.0	9.5	4.0	2.0	5.0	1.4
10W	0.2Ω-500Ω	500Ω-50KΩ	48.0	9.5	9.5	35.0	24.0	9.5	4.0	2.0	5.0	1.4
15W	0.5Ω-500Ω	500Ω-150KΩ	48.0	12.5	12.5	32.5	34.5	15.0	7.0	6.0	10.0	2.7
20W	1Ω-50Ω	500Ω-150KΩ	63.5	12.5	12.5	45.0	34.5	15.0	7.0	6.0	10.0	2.7
25W	1Ω-50Ω	500Ω-150KΩ	63.5	12.5	12.5	45.0	34.5	15.0	7.0	6.0	10.0	2.7

※NOTE: Resistance up to 50 Ω maximum for Non-Inductive type

TEMPERATURE RISE AT 25 °C

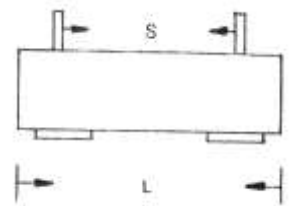
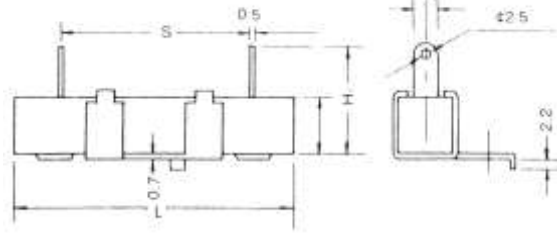
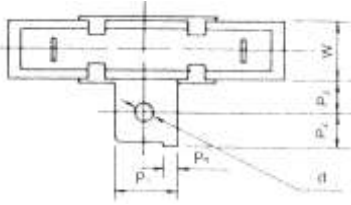


TEMPERATURE RISE AT 25°C



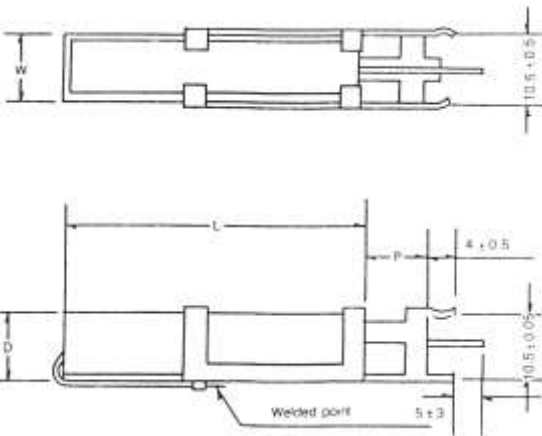
SQHG

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TYPE	RESISTANCE RANGE(Ω)		DIMENSIONS(mm)									
	WIRE WOUND	MO	L \pm 2	H \pm 1	W \pm 1	S \pm 1	H1 \pm 1	P1 \pm 1	P2 \pm 1	P3 \pm 1	P4 \pm 1	d \pm 0.05
10W	0.5 Ω -500 Ω	500 Ω -50K Ω	48.0	10.0	10.0	33.0	21.0	12.0	6.0	8.0	3.0	4.0
15W	1 Ω -500 Ω	500 Ω -150K Ω	48.0	12.0	12.0	33.0	21.0	12.0	6.0	8.0	3.0	4.0
20W	1 Ω -500 Ω	500 Ω -150K Ω	63.7	12.0	12.0	42.0	24.0	12.0	6.0	8.0	3.0	4.0
30W	1 Ω -500 Ω		75.0	19.0	18.0	56.0	30.0	17.0	8.0	10.0	3.0	4.0
40W	1 Ω -500 Ω		90.0	19.0	18.0	68.0	30.0	17.0	8.0	10.0	3.0	4.0
50W	1 Ω -500 Ω		90.0	19.0	18.0	68.0	30.0	17.0	8.0	10.0	3.0	4.0

※NOTE: Resistance up to 15 Ω maximum for Non-Inductive type



TYPE	DIMENSION(mm)				RESISTANCE RANGE (Ω)	
	W \pm 1	D \pm 1	L \pm 1	P \pm 1	Wirewound	MO
5W	10	9	22	5	0.1 Ω ~50 Ω	56 Ω ~50K Ω
7W	10	9	35	10	0.1 Ω ~300 Ω	300 Ω ~50K Ω
10W	10	9	48	10	0.1 Ω ~500 Ω	500 Ω ~50K Ω
15W	12	13	48	10	0.1 Ω ~1K Ω	1K Ω ~50K Ω
20W	12	13	60	10	0.1 Ω ~1K Ω	1K Ω ~50K Ω

ELECTRICAL PERFORMANCE

TEST ITEMS	CONDITION	SPEC.
Resistance Temp. Coeff.	-55 $^{\circ}$ C~155 $^{\circ}$ C	\pm 300ppm/ $^{\circ}$ C
Short Time Overload	10 times of rated wattage for 5 sec	\pm 2%
Rated Load	Rated wattage for 30 min	\pm 1%
Voltage Withstanding	1,000V AC 1min	no change
Insulation Resistance	500V megger	1,000M Ω
Load Life	70 $^{\circ}$ C on-off cycle 1000hrs	\pm 5%
Moisture-proof Load Life	40 $^{\circ}$ C 95%RH on-off cycle 1000hrs	\pm 5%
Incombustibility	16 times of rated wattage for 5 min	not flamed