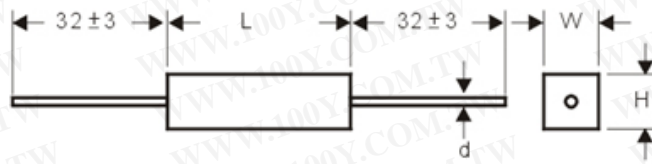


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CEMENT TYPE RESISTORS

SQP

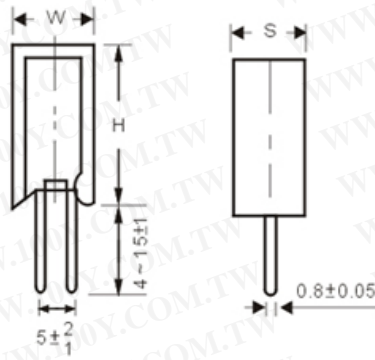


SQP	DIMENSIONS(mm)				RESISTANCE RANGE Ω		Max Working Voltage
	$L \pm 0.5$	$W \pm 0.5$	$H \pm 0.5$	$d \pm 0.03$	SQP	MO + SQP	
2W	18.0	7.0	7.0	0.65	0.1 Ω ~ 50 Ω	50 ~ 200K Ω	250V
3W	22.0	8.0	8.0	0.8	0.1 Ω ~ 50 Ω	50 ~ 330K Ω	350V
5W	22.0	9.5	9.0	0.8	0.1 Ω ~ 50 Ω	50 ~ 500K Ω	350V
7W	35.0	9.5	9.0	0.8	0.1 Ω ~ 500 Ω	500 ~ 500K Ω	500V
10W	48.0	9.5	9.0	0.8	0.1 Ω ~ 500 Ω	500 ~ 500K Ω	500V
15W	48.0	12.5	12.0	0.8	0.1 Ω ~ 500 Ω	500 ~ 150K Ω	500V
20W	60.0	14.0	13.0	0.8	0.1 Ω ~ 500 Ω	500 ~ 150K Ω	500V
25W	60.0	14.0	13.0	0.8	0.1 Ω ~ 500 Ω	500 ~ 150K Ω	1000V
30W	77.0	18.0	17.0	0.8	0.1 Ω ~ 500 Ω	500 ~ 150K Ω	1000V
40W	90.0	19.0	18.0	0.8	0.1 Ω ~ 500 Ω	500 ~ 150K Ω	1000V

SQM



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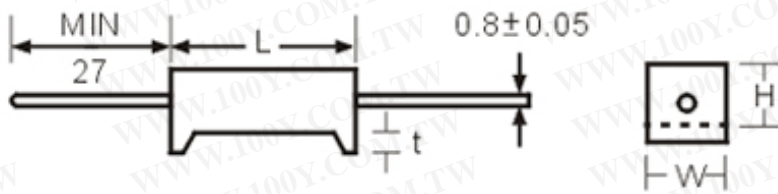


Type	DIMENSIONS(mm)			RESISTANCE RANGE Ω	
	H ± 1.5	W ± 1	S ± 1	SQM	MO + SQM
5W	25	13	9	0.1 Ω ~ 50 Ω	50 ~ 50K Ω
7W	39	13	9	0.1 Ω ~ 500 Ω	500 ~ 47K Ω
10W	51	13	9	0.1 Ω ~ 500 Ω	500 ~ 47K Ω
10WS	35	16	12	0.1 Ω ~ 500 Ω	500 ~ 47K Ω

SQT



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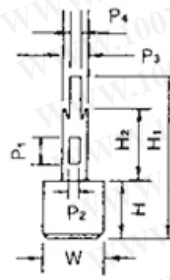
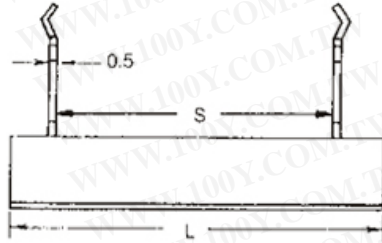


Type	DIMENSIONS(mm)				RESISTANCE RANGE Ω	
	$W \pm 1$	$H \pm 1$	$L \pm 1$	$t \pm 0.5$	SQT	MO + SQT
5W	10	9	22	1.5	0.1 Ω ~ 50 Ω	50 ~ 50K Ω
7W	10	9	35	3.0	0.1 Ω ~ 500 Ω	500 ~ 47K Ω
10W	10	9	48	3.0	0.1 Ω ~ 500 Ω	500 ~ 47K Ω
15W	12.5	12.5	48	3.0	0.1 Ω ~ 500 Ω	500 ~ 47K Ω
20W	13	14	60	5.0	0.1 Ω ~ 500 Ω	500 ~ 47K Ω

SQZ



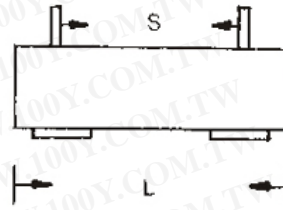
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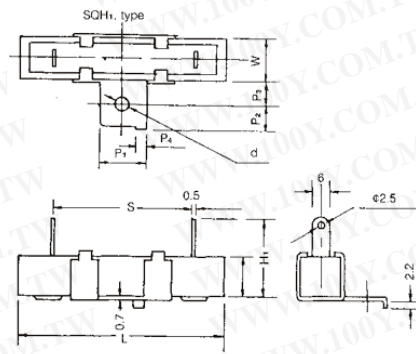
Description	W	RESISTANCE RANGE Ω		DIMENSIONS(mm)									
		SQZ	MO + SQZ	L	H	W	S	H1	H2	P1	P2	P3	P4
SQZ-5	5	0.1 ~ 100 Ω	100 Ω ~ 50K Ω	27.0	9.5	9.5	15.0	24.0	9.5	4.0	2.0	5.0	1.4
SQZ-7	7	0.1 ~ 500 Ω	500 Ω ~ 50K Ω	35.0	9.5	9.5	22.5	24.0	9.5	4.0	2.0	5.0	1.4
SQZ-10	10	0.2 ~ 500 Ω	500 Ω ~ 50K Ω	48.0	9.5	9.5	32.5	24.0	9.5	4.0	2.0	5.0	1.4
SQZ-15	15	0.5 ~ 500 Ω	500 Ω ~ 150K Ω	48.0	12.5	12.5	32.5	34.5	15	7.0	6.0	10.0	2.7
SQZ-20	20	1 ~ 50 Ω	500 Ω ~ 150K Ω	63.5	12.5	12.5	42.5	34.5	15	7.0	6.0	10.0	2.7
SQZ-3S	3	0.1 ~ 50 Ω	50 Ω ~ 33K Ω	22.0	8.0	8.0	10.0	23.0	12	4.0	2.0	5.0	1.4
SQZ-5S	5	0.1 ~ 50 Ω	50 Ω ~ 50K Ω	22.0	9.5	9.5	10.0	24.0	12	4.0	2.0	5.0	1.4

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SQH



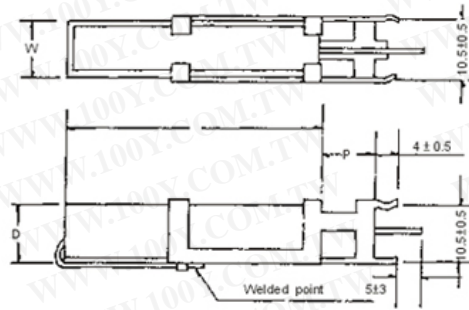
SQHG



Type	W	RESISTANCE RANGE Ω		DIMENSIONS (mm)									
		SQH	MO + SQH	L ± 2	H ± 1	W ± 1	S ± 1	H ± 1	P1 ± 1	P2 ± 1	P3 ± 1	P4 ± 1	d
SQH-10	10	0.5 Ω ~ 100 Ω	500 Ω ~ 50K Ω	48.0	10.0	10.0	33	21	12	6	8.0	3.0	4
SQH-15	15	1 Ω ~ 500 Ω	500 Ω ~ 150K Ω	48.0	12.0	12.0	33	21	12	6	8.0	3.0	4
SQH-20	20	1 Ω ~ 500 Ω	500 Ω ~ 150K Ω	63.7	12.0	12.0	42	24	12	6	8.0	3.0	4
SQH-30	30	1 Ω ~ 500 Ω		75.0	19.0	18.0	56	30	17	8	10.0	3.0	4
SQH-40	40	1 Ω ~ 500 Ω		90.0	19.0	18.0	68	30	17	8	10.0	3.0	4

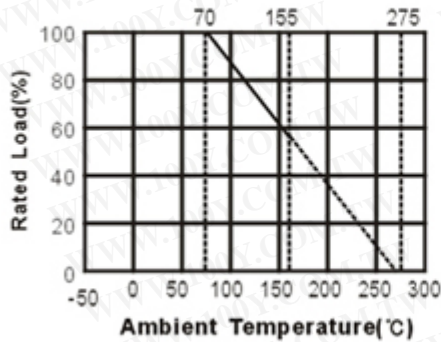
SPS

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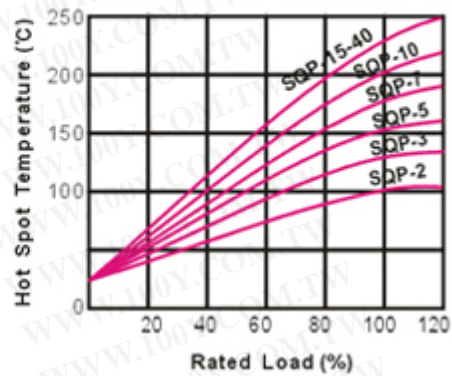


Style	DIMENSIONS(mm ± 1mm)				RESISTANCE RANGE Ω	
	L	W	D	P	Wirewound	RS
SPS-5	10	9	22	5	0.1 Ω ~ 200 Ω	200 Ω ~ 50K Ω
SPS-7	10	9	35	10	0.1 Ω ~ 300 Ω	300 Ω ~ 50K Ω
SPS-10	10	9	48	10	0.1 Ω ~ 500 Ω	500 Ω ~ 50K Ω
SPS-20	60	14	13	10	0.1 Ω ~ 500 Ω	500 Ω ~ 50K Ω

DERATING CURVE



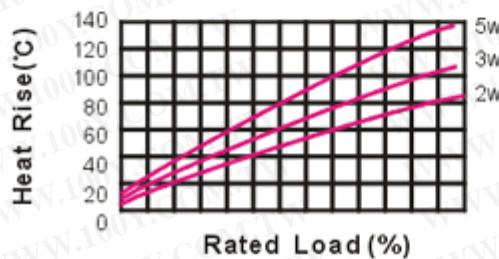
TEMPERATURE RISE



CHARACTERISTICS

REQUIREMENTS	CHARACTERISTICS
Temperature Coefficient	$\pm 300\text{PPM}/^\circ\text{C}$ $< 20\ \Omega$ $\pm 400\text{PPM}/^\circ\text{C}$
Insulation Resistance	$> 100\text{M}\ \Omega$
Load Life (1,000 hours)	$\pm (2\% + 0.05\ \Omega)$
Short-time Overload	$\pm (2\% + 0.05\ \Omega)$
Dielectric Withstanding Voltage	$\pm (1\% + 0.05\ \Omega)$
Moisture Resistance	$\pm (3\% + 0.05\ \Omega)$
Shock and Vibration	$\pm (1\% + 0.05\ \Omega)$
Soldering Heat	$\pm (1\% + 0.05\ \Omega)$
Incombustibility	EX16 TimeS V., 5 min

HEAT RISE CHART



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