

# SQ Series

Cement Type Resistors Wirewound & Metal Oxide Film

TYEUSA



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## Cement Type Resistors Wirewound & Metal Oxide Film (SQ)

Type	Forming Packaging	Power Rating	Value of Resistance	Tolerance
SQ	P	2W	100	J
<b>Gement Type Resistors (Wirewound &amp; Oxide Film)</b>	<b>P type Z type M type H type S type (SPS)</b>	<b>Standard type 2W , 3W , 5W , 7W , 10W , 15W ,20W , 30W...</b>	<b>3 digit marking for (G , J) Example:100 : 10 Ω 122 : 1200 Ω=1.2K 473 : 47K</b>	<b>J 5%</b>

### \*Rating

Stlye	MAX Working Voltage	MAX OverLoad Voltage	Operation Temp( °C )	Resistance Tolerance	Resistance Range	
					Wirewound Type	Metal Oxide Film Type
2W	350V	700V	-55°C~155°C	J : ± 5%	0.1Ω-100Ω	100Ω-1MΩ
3W	500V	1000V			0.1Ω-100Ω	100Ω-1MΩ
5W	750V	1500V			0.1Ω-100Ω	100Ω-1MΩ
7W	1000V	1500V			0.1Ω-100Ω	100Ω-500K
10W	1000V	1500V			0.1Ω-500Ω	500Ω-500K
15W	1000V	1500V			0.1Ω-800Ω	800Ω-500K
20W	1000V	1500V			0.1Ω-800Ω	800Ω-500K

Note: **Special specification can be specified and manufactured on request**

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## \*Specification & Characteristics

Test Items	Performances	Test methods (JIS C 5202)
Temperature Coefficient(PPM/ °C)	350	5.2
Short Time Overload	$\Delta R < \pm (2\% + 0.05 \Omega)$	5.5
Pulse overload	$\Delta R < \pm (2\% + 0.05 \Omega)$	5.8
Solderability	95% Coverage Minmum	6.5
Temperature Cycling	$\Delta R < \pm (2\% + 0.05 \Omega)$	7.4
Load Life	$\Delta R < \pm (5\% + 0.05 \Omega)$	7.10 1,000/Hr
Load Life In Humidity	$\Delta R < \pm (5\% + 0.05 \Omega)$	7.9 1,000Hr

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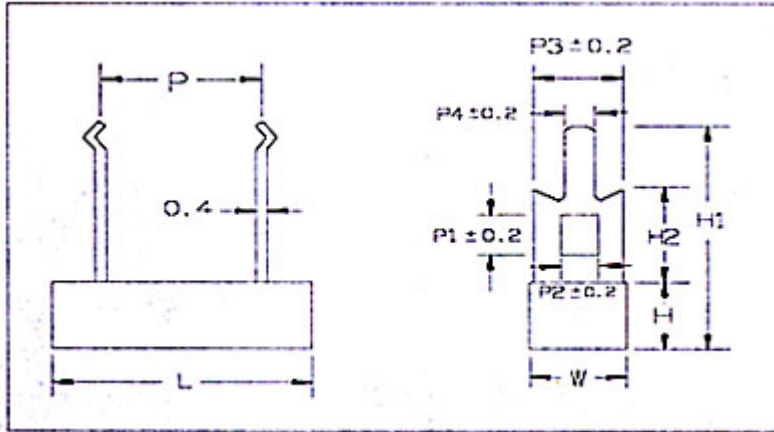
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## \* SQZ



Type	Dimension : mm									
	L 1.5	P 1.5	W 1.5	H1	H 1	H2 1	P1	P2	P3	P4
SQZ5W	27	15	9.5	39	9.5	25	4.0	1.6	7.3	1.4
SQZ5WS	27	15	9.5	24	9.5	10	4.0	1.6	7.3	1.4
SQZ7W	35	22.5	9.5	39	9.5	25	4.0	1.6	7.3	1.4
SQZ7WS	35	22.5	9.5	24	9.5	10	4.0	1.6	7.3	1.4
SQZ10W	48	35	9.5	39	9.5	25	4.0	1.6	7.3	1.4
SQZ10WS	48	35	9.5	24	9.5	10	4.0	1.6	7.3	1.4
SQZ15W	48	32.5	12.5	47.5	12.5	30	7.0	3	10	2.7
SQZ15WS	48	32.5	12.5	32.5	12.5	15	7.0	3	10	2.7
SQZ20W	63.5	47.5	12.5	47.5	12.5	30	7.0	3	10	2.7
SQZ20WS	63.5	47.5	12.5	32.5	12.5	15	7.0	3	10	2.7

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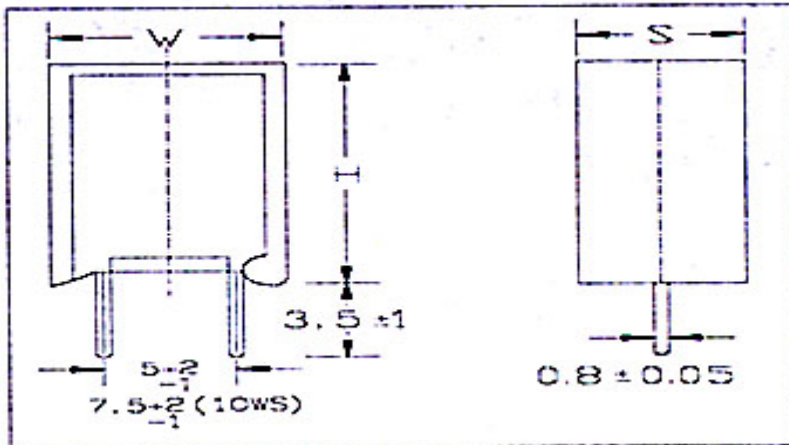
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## \* SQM



Type SQM	Dimension (mm)		
	W 1	S 1	H 1
3W	12	8	25
5W	13	10	25
7W	13	10	39
10W	13	10	51
10WS	16	12	36

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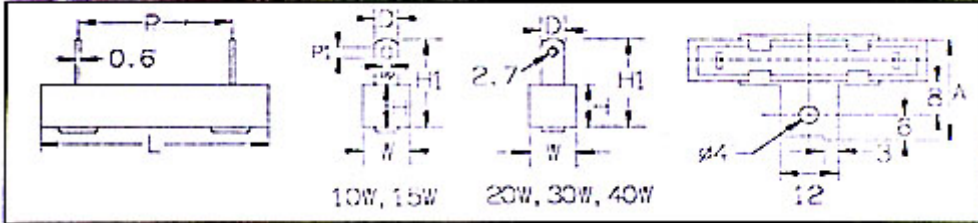
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## SQH



Type SQH	Dimension (mm)								
	L ± 1.5	W ± 1	H ± 1	P	P1 ± 0.2	P2 ± 0.2	A	H1 ± 1	D ± 0.5
10W	48	10.0	10.0	32 ± 1	2.5	1.7	25	21	5.0
15W	48	12.5	12.0	32 ± 1	2.5	1.7	28	21	5.0
20W	60	14.5	13.5	42 ± 1	3.0	2.5	28	24	6.0
30W	75	19.0	19.0	55 ± 2		2.5	40	31	7.5
40W	90	19.0	19.0	67 ± 2			40	31	7.5

Note : 1. Max Overload Voltage is 2 times of the Max. Working Voltage.

2. Resistors of  $\Omega$ ic value out of the indicated range can be supplied only case by case

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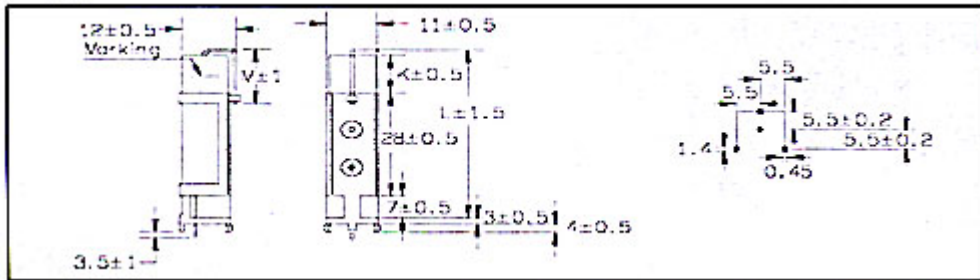
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## SPS



Type SPS	Dimension (mm)		
	L ± 1.5	K ± 0.5	M ± 1
<b>7W</b>	<b>48</b>	<b>8.5</b>	<b>14</b>
<b>10W</b>	<b>60</b>	<b>20.0</b>	<b>27</b>