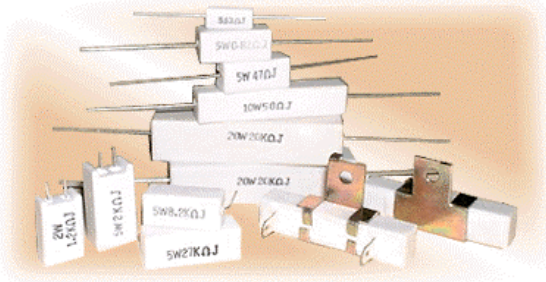


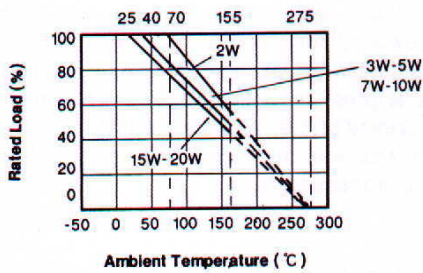
# YESO SQ Cement Insulated Resistors

## SQ cement resistors

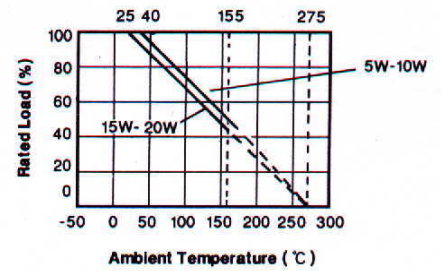
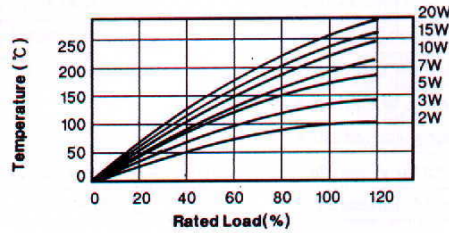
SQ cement resistors are made by winding resistance wires around non-alkaline ceramic core, which is added with a layer of heat and humidity resistant and non-corrosive protective material. The wire wound resistor is then placed in a square ceramic package sealed with special nonflammable heat-resistant cement.



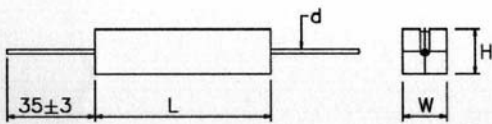
### DERATING CURVE



### TEMPERATURE RISE

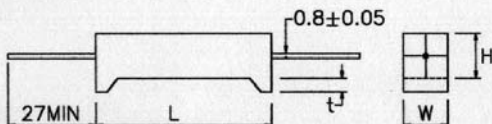


## SQP TYPE



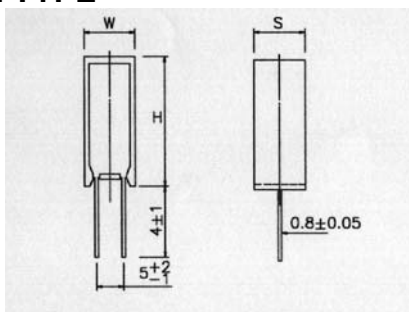
TYPE	Dimensions 寸法 (m/m)				Resistance Range ( $\Omega$ )	
	$L \pm 1.5$	$W \pm 1$	$H \pm 3$	$d \pm 0.05$	SQP	MO+SQP
2 W	18.0	7.0	7.0	0.65	$0.1 \Omega \sim 50 \Omega$	$50 \Omega \sim 20K \Omega$
3W	22.0	8.0	8.0	0.80	$0.1 \Omega \sim 50 \Omega$	$50 \Omega \sim 33K \Omega$
5W	22.0	10.0	9.0	0.80	$0.1 \Omega \sim 50 \Omega$	$50 \Omega \sim 50K \Omega$
7 W	35.0	10.0	9.0	0.80	$0.1 \Omega \sim 500 \Omega$	$500 \Omega \sim 50K \Omega$
10W	48.0	10.0	9.0	0.80	$0.1 \Omega \sim 500 \Omega$	$500 \Omega \sim 50K \Omega$
15W	48.0	12.0	12.0	0.90	$0.5 \Omega \sim 500 \Omega$	$500 \Omega \sim 150K \Omega$
20W	60.0	13.0	13.0	0.90	$0.5 \Omega \sim 500 \Omega$	$500 \Omega \sim 150K \Omega$

## SQT TYPE



TYPE	Dimensions 寸法 (m/m)				Resistance Range ( $\Omega$ )	
	$W \pm 1$	$H \pm 1$	$L \pm 1.5$	$t \pm 1$	SQT	MO+SQT
5W	10	9.0	22	1.5	$0.1 \Omega \sim 50 \Omega$	$50 \Omega \sim 50K \Omega$
7W	10	9.0	35	3.0	$0.1 \Omega \sim 500 \Omega$	$500 \Omega \sim 47K \Omega$
10W	10	9.0	48	3.0	$0.1 \Omega \sim 500 \Omega$	$200 \Omega \sim 47K \Omega$

## SQM TYPE



TYPE	Dimensions 寸法 (m/m)			Resistance Range ( $\Omega$ )	
	$H \pm 1.5$	$W \pm 1$	$S \pm 1$	SQM	MO+SQM
5w	25.0	13	9.0	$0.1 \Omega \sim 50 \Omega$	$50 \Omega \sim 50K \Omega$
7w	39.0	13	9.0	$0.1 \Omega \sim 500 \Omega$	$500 \Omega \sim 47K \Omega$
10w	51.0	13	9.0	$0.1 \Omega \sim 500 \Omega$	$500 \Omega \sim 47K \Omega$

## FEATURES

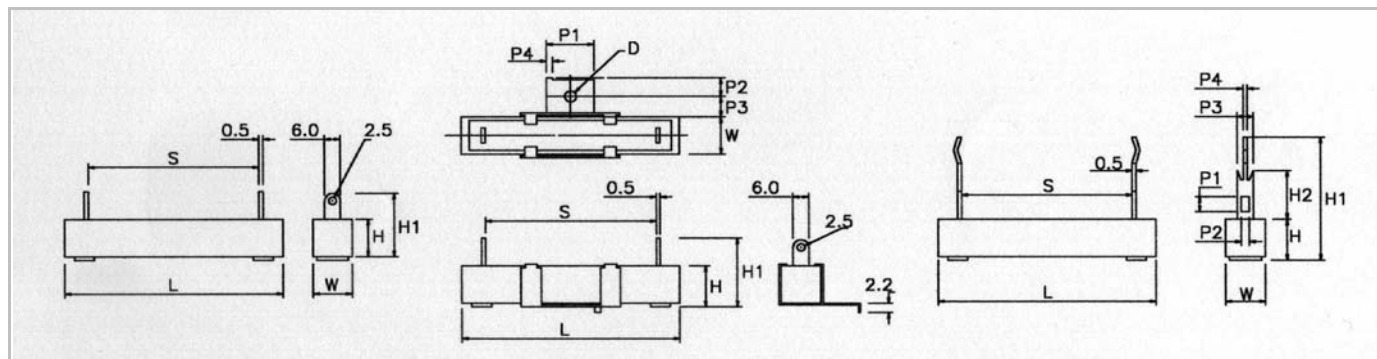
1. Small size, resistant to vibration, humidity and heat, good dissipation, low price.
2. Complete insulation suitable for printed circuit boards.
3. Wire wound ceramic core with soldered connector producing precision resistance and extended life.
4. For high resistance value, wires are replaced by metal oxide films.
5. Excellent heat resistance, small temperature coefficient displaying linear change.
6. Instant overload capability, low noise and no annual shift in resistance value.

# YESO SQ Cement Insulate Resistors

## SQH TYPE

## SQH~G TYPE

## SQZ TYPE



TYPE 型式	Power Rating	Resistance Range(Ω)		Dimensions 寸法 (m/m)									
		SQH	MO+SQH	L±2	H±2	W±2	S±2	H1±2	P1	P2	P3	P4	D
SQH-10	10W	0.5Ω~500Ω	500Ω~50KΩ	48.0	10.0	10.0	32	21	12	6	8.0	3.0	4
SQH-15	15W	1Ω~500Ω	500Ω~150KΩ	48.0	12.0	12.0	32	21	12	6	8.0	3.0	4
SQH-20	20W	1Ω~500Ω	500Ω~150KΩ	63.5	12.0	12.0	42	24	12	6	8.0	3.0	4
SQH-30	30W	1Ω~500Ω		75.0	19.0	18.0	55	30	17	8	10.0	3.0	4
SQH-40	40W	1Ω~50Ω		90.0	19.0	18.0	68	30	17	8	10.0	3.0	4

TYPE 型式	Power Rating	Resistance Range (Ω)		Dimensions 寸法 (m/m)									
		SQZ	MO+SQZ	L±1	H±1	W±1	S±1	H1±1	H2±1	P1	P2	P3	P4
SQZ-5	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
SQZ-7	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
SQZ-10	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
SQZ-15	15W	0.5Ω~500Ω	500Ω~150KΩ	48.0	12.5	12.5	32.5	36.5	15.0	7.0	6.0	10.0	2.7
SQZ-20	20W	1Ω~500Ω	500Ω~150KΩ	63.5	12.5	12.5	45.0	36.5	15.0	7.0	6.0	10.0	2.7
SQZ-3S	3WS	0.1Ω~50Ω	50Ω~33KΩ	22.0	8.0	8.0	10.0	23.0	12.0	4.0	2.0	5.0	1.4
SQZ-5S	5WS	0.1Ω~50Ω	50Ω~50KΩ	25.0	9.5	9.5	12.0	24.0	12.0	4.0	2.0	5.0	1.4

## PERFORMANCE SPECIFICATIONS

項目 TEST ITEM	性能 CHARACTERISTICS
溫度係數 Resistance Temp. Coeff.	-55°C~155°C ±300ppm/°C
短時間過負載 Short Time Over Load	10 time of rated wattage for 5 sec. ±2%
定格負載 Rated Load	Rated wattage for 30 min ±1%
耐電壓 Voltage Withstanding	1.000V AC 1min No change
絕緣電阻 Insulation Withstanding	500V merger 1.000 MΩ
溫度週率 Temp. Cycle	-30°C~85°C for 5 cycles ±1%
負載壽命 Load Life	70°C on-off cycle 1.000 hrs ±5%
耐濕壽命 Moisture-proof Load Life	40°C 95% RH on-off cycle 1.000 hrs ±5%
不燃性 Incombustibility	16 times of rated wattage for 5 min. Not flamed

## NOTE :

1. Max Overload Voltage is 2times of Max Working Voltage.
2. Too low or too high ohmic value can be supplied only case by case.
3. "RS+SQ" short time over load is 5 time of rated wattage for 5 sec.

## HOW TO ORDER

<b>SQP</b>	<b>20W</b>	<b>10Ω</b>	<b>J</b>	a. Common code for wire-wound cement
↓	↓	↓	↓	b. Rated power
<b>a.</b>	<b>b.</b>	<b>c.</b>	<b>d.</b>	c. Resistance value. (Ω)
				d. Resistance tolerance. ( J = ±5% )