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## Cement Fixed Resistors Series



#### Features

- 1. Good heat-durability, Low temperature coefficient, low noise,
- high load power, high insulating capacity, nonflammability.
- 2. Operating ambient temperature: -55°C ~ +275°C

#### Dimension (unit: mm)





-		Dime	ension	( mm)		Resistance Range				
Туре	W $\pm$ 1	$D\pm 1$	L±1	d $\pm$ 0.05	$H\pm 5$	Wire-wound	Metal Oxide Film			
Normal Size										
SQP-2W	6.4	6.4	18	0. 7	28	<b>0</b> . 1 Ω <b>–27</b> Ω	<b>20</b> Ω <b>–40Κ</b> Ω			
SQP-3W	8	8	22	0. 7	28	<b>0</b> . 1 Ω <b>–39</b> Ω	<b>30</b> Ω <b>−62K</b> Ω			
SQP-5W	9.5	9.5	22	0. 8	28	<b>0</b> . 1 Ω <b>-47</b> Ω	<b>4</b> 0 Ω −120K Ω			
SQP-7W	9.5	9.5	35	0. 8	35	<b>0</b> . 1 Ω <b>–680</b> Ω	<b>510</b> Ω − <b>250K</b> Ω			
SQP-10W	9.5	9.5	48.5	0. 8	35	<b>0.</b> 1 Ω –910 Ω	<b>820</b> Ω <b>−250K</b> Ω			
SQP-15W	12.5	12. 5	48.5	0. 8	35	1 Ω −1K Ω				
SQP-20W	14.5	12.5	60	0.8	35	<b>2</b> Ω −1. 2K Ω				
SQP-25W	14. 5	12.5	64	0.8	35	<b>2</b> Ω −1. 5K Ω				
Small Size										
SQPS-3W	6	6	20	0.6	28	<b>0</b> . <b>1</b> Ω <b>–27</b> Ω	<b>20</b> Ω <b>–40Κ</b> Ω			
SQPS-5W	6	6	25	0.7	35	0. 1 Ω −100 Ω	<b>100</b> Ω <b>–100K</b> Ω			
SQPS-7W	9	9	25	0.8	35	0. 1 Ω -100 Ω	100 Ω −100Κ Ω			



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## Cement Fixed Resistors Series

## KLS6-SQP Cement Fixed Resistors Series

ltem	Performance requirement	Test methods				
	Wire coiling:	JIS5202-5. 2				
	-300ppm/°C≤ a ≤+300ppm/°C	$-55^{\circ}$ C to $+155^{\circ}$ C				
Temperature	Oxide rod:	T. C. R=(R2-R1)×10?6/ R1 ×(T2-T1) (PPM/°C)				
	-350ppm/°C≤ a ≤+350ppm/°C	R1:Resistance value at room temperature(T1);				
		R2:Resistance value at room temperature+100 $^\circ\!$				
Short time	$A P \le + (2\% P0 + 0.10)$	JIS5202–5. 5				
overload	$\Delta R \ll \pm (2\% \text{ KO+0.1} \text{ S2})$	2.5times RCWV for 5 seconds				
Resistance to	$A P \le + (1\% P 0 + 0.05 \circ)$	JIS5202-6. 4				
soldering heat	$\Delta \mathbf{R} \leqslant \pm (1\% \mathbf{R} 0 + 0, 0 5 2)$	$350^\circ C \pm 10^\circ C$ for $3 \pm 0.5$ seconds				
Saldarahilitu	The area of soldering is	JIS5202-6. 5				
Solderability	over 95%	235℃for5 $\pm$ 0.5 seconds				
-		JIS5202-7.4				
lemperature	$\Delta$ R $\leqslant$ $\pm$ (5% R0+0.1 $\Omega$ )	$\rightarrow 65^{\circ}$ C → room temp. $\rightarrow 150^{\circ}$ C → room temp.				
o you mg		for 5 cycles				
		JIS5202-7. 9				
Load lite in moisture	$\Delta R \leqslant \pm$ (5% R0+0.1 $\Omega$ )	40 $\pm2^\circ\!\mathrm{C}$ ,90 $\sim$ 95% RH at RCWV for 1000 hrs.				
		(1.5 hrs. on, 0.5 hrs. off)				
Nonflammability	No visible flame	SJ3272-4. 2				

## Derating Curve

Heat Rise Chart



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## Cement Fixed Resistors Series

### **KLS6-SQM** Cement Fixed Resistors Series

#### Features

- 1. Good heat-durability, Low temperature coefficient, low noise,
- high load power, high insulating capacity, nonflammability.
- 2. Operating ambient temperature: -55°C ~ +275°C

#### Dimension (unit: mm)





<b>T</b>		Dimo	ension	( mm)	Resistance Range						
туре	$W \pm 1$	D±1 L±1		d $\pm$ 0.05	P±1	Wire-wound	Metal Oxide Film				
Normal Size											
SQM-2W	11.5 7.5		20	0. 7	5	<b>0</b> . 1 Ω –27 Ω	<b>20</b> Ω – <b>40K</b> Ω				
SQM-3W	12.5	2.5 8.5 25 0.7		0. 7	5	<b>0</b> . 1 Ω –39 Ω	<b>30</b> Ω <b>–62K</b> Ω				
SQM-5W	12.5	9	25	0.8	5	<b>0</b> . 1 Ω <b>-47</b> Ω	<b>40</b> Ω −120K Ω				
SQM-7W	12.5	9	38	0.8	5	<b>0.</b> 1 Ω –680 Ω	<b>510</b> Ω − <b>250K</b> Ω				
SQM-10W	N 12.5 9 50 0.8		0.8	5	<b>0</b> . <b>1</b> Ω <b>-910</b> Ω	<b>820</b> Ω <b>–250K</b> Ω					
Small Size											
SQMA-5W	12.5	9	25	0. 8	7.5	<b>0</b> . 1 Ω <b>–47</b> Ω	<b>40</b> Ω −120K Ω				
SQMA-7W	12.5	9	38	0.8	7.5	<b>0</b> . 1 Ω –680 Ω	510 Ω – <mark>250K</mark> Ω				
SQMA-10W	16	12	35	0.8	7.5	0.1Ω-910Ω	<b>820</b> Ω – <b>250K</b> Ω				

#### Heat Rise Chart



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## Cement Fixed Resistors Series

### KLS6-SQZ Cement Fixed Resistors Series

#### Features

- 1. Good heat-durability, Low temperature coefficient, low noise,
- high load power, high insulating capacity, nonflammability.
- 2. Operating ambient temperature: -55°C ~ +275°C

#### Dimension (unit: mm)



	Turne			Dimension (mm) Resistance Range				stance Range						
	туре	W $\pm$ 1	$D\pm 1$	L	P±1.5	$T1\pm 1$	$T2\pm0.2$	$T3\pm0.5$	$H1\pm 2$	$H1\pm 2$	Wire-wound	Metal Oxide Film		
	SQZA-3W				2±1 9.5	7	1.6	-	24	10	0.1Ω−47Ω	48 Ω -40K Ω	Heat Rise Chart	
	SQZB-3W	10	٥	22±1			1.6	-	39	25				
	SQZC-3W	10	9			<i>'</i>	1.5	3.5	36	22				
	SQZD-3W						1.3	3.5	24	10				
	SQZA-5W			27/25	15/8.5		1.6	-	24	10				
	SQZB-5W						1.6	-	39	25				
	SQZC-5W	10	9	27 + 1	15	7	1.5	3.5	36	22	<b>0</b> . 1 Ω <b>-</b> 120 Ω	121 Ω -62K Ω	150	
	SQZ1C-5W			27 1	15		1.3	3.5	39	24			() 120 ()	
	SQZD-5W						1.3	3.5	24	10				
	SQZA-7W						1.6	-	24	10				
	SQZB-7W			9 35±1	1 22		1.6	-	39	25	<b>0.</b> 1 Ω <b>–560</b> Ω	561 Ω −120K Ω	0 20 40 60 80 100 Rated load (%)	
	SQZC-7W	10	9			2 7	1.5	3.5	36	22				
	SQZ1C-7W						1.3	3.5	39	24				
	SQZD-7W						1.3	3.5	24	10				
	SQZA-10W						1.6	-	24	10				
	SQZB-10W	10	9	48+1.5	35/32	7	1.6	-	39	25	0 1 0 -820 0	820 Q -120K Q		
	SQZC-10W	10	Ů	40 - 1. 0	33/ 32	32 /	1.5	3.5	36	22	0.110 02010	020 32 1201 32	-	
	SQZD-10W						1.3	3.5	24	10				
	SQZA-15W						3	-	35	15				
	SQZB-15W	12.5	11.5	48±1.5	32	10	3	-	47	30	1 Ω −1K Ω	-		
	SQZC-15W						2	5	47	30				
	SQZA-20W						3	-	35	15				
	SQZB-20W	12.5	2.5 13.5	13.5 63	63±1.5 4	45	10	3	-	47	30	1 Ω −1. 5K Ω	2 –	
L	SQZC-20W						2	5	47	30				

## ORDER INFORMATION



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