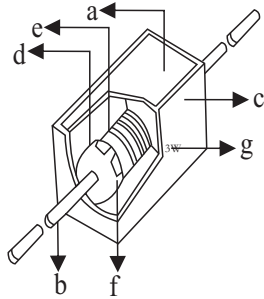


● Features

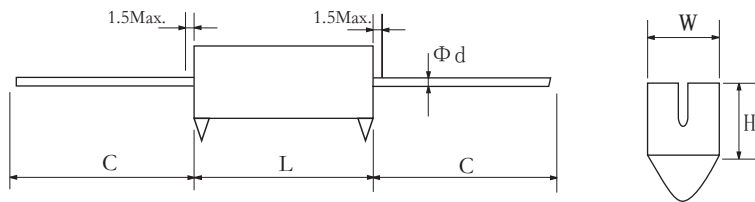
- I Compact type with safety design of non-flammability and insulation
- II Stable long life
- III Products meet Eu-RoHS

● Construction



a	SiO ₂ material
b	Tinned copper lead wire
c	Ceramic shell
d	Glass core or ceramic core
e	Wire-wound or metal oxide film
f	Tinned iron cap
g	Marking

● Dimensions



Type	Power	Dimensions(mm)					
		L±1.5	W±1	H±1.5	H ₁ ±0.5	C±3	d±0.05
SQA	3W	22.0	8.0	10.0	2.0	33.0	0.70
	5W	22.0	10.0	12.0	3.0	33.0	0.70
	5W	25.0	6.0	7.0	1.5	33.0	0.70
	7W	35.0	10.0	12.0	3.0	33.0	0.70
	10W	48.0	10.0	12.0	3.0	33.0	0.70

● Ordering Information

Example:

SQA	01	J	R100	A
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	Resistance	Special code

(1)Type: SQA SERIES

(2)Power Rating: 3=3W、5=5W、7=7W、10=10W

(3)Tolerance: F=±1%、G=±2%、J=±5%

(4)Resistance Value:R100=0.1R、1R00=1Ω、10R0=10Ω、100R0=100Ω

(5)Special code: A:wirewound type ceramic core; B:Metal oxide film type; C:wirewound type glass core; D:non-inductive type

To meet your request :

We also provide products for below functions.

- I Mini size design
- II Non-inductive products
- III Anti-pulse high voltage products
- IV Design resistor for High stability and reliable military supplies and industrial products .

More details please contact with our engineer. kh@khxcom.com

Reference Standards

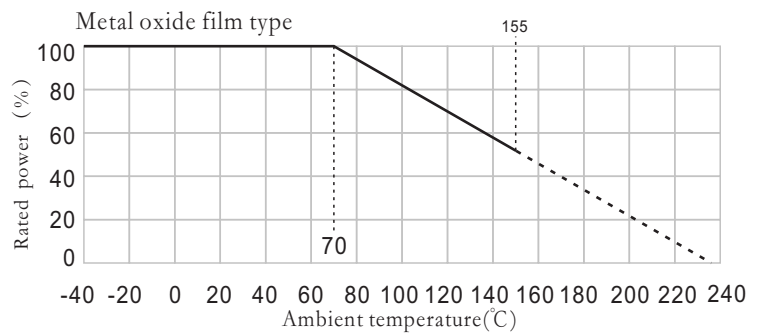
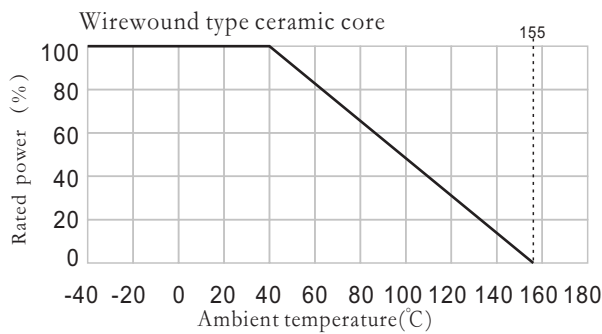
JISC 5201-1

Applications And Ratings

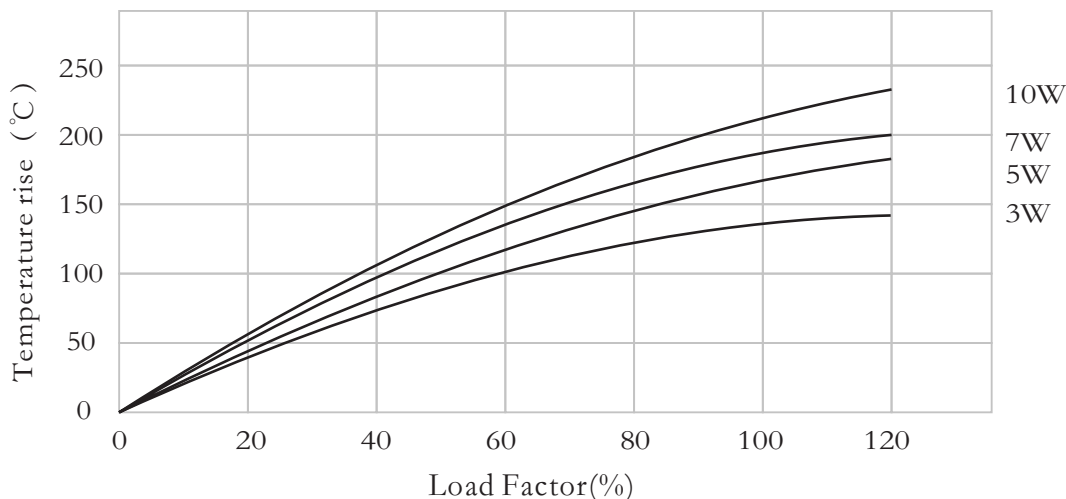
Rated Power(W)	Resistance Range(Ω)		Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	T.C.R
	Metal oxide film type	Wire wound type				
3	100~39K	0.01~3K	350V	1000V	1000V	Metal oxide film $\pm 350\text{PPM}/^{\circ}\text{C}$
5	100~50K	0.01~10K	350V	1000V		
7	100~100K	0.05~20K	500V	1500V		Wirewound type $\pm 100\text{PPM}/^{\circ}\text{C}$
10	100~100K	0.1~20K	750V	1500V		

Derating Curve

Example



Surface Temperature Rise



● Performance

Test Items	Performance Requirements	Test Methods(JIS C 5201-1)
Resistance	Within specified tolerance	Measuring points are 10mm from the end cap
T.C.R.	Within specified T.C.R	Room temperature+100°C
Short time overload	$\pm (1\%+0.05\Omega)$	10 times the rated power for 5 seconds
Load life	$\pm (5\%+0.1\Omega)$	Rated voltage at 70°C for 1,000 hours 1.5hr ON/0.5hr OFF Cycles
Load life in humidity	$\pm (5\%+0.1\Omega)$	Rated voltage at 40°C ,95%RH for 1,000 hours
Temperature cycle	$\pm (1\%+0.05\Omega)$	5 cycles for -25°C (30min);room temp. (30min) ~+85°C (30min)room temp. (30min)
Resistance to soldering heat	$\pm (1\%+0.05\Omega)$	260°C \pm 5°C for 10 seconds 350°C \pm 10°C for 3.5 seconds
Insulation resistance	> 100M Ω	500V insulation test 1min.