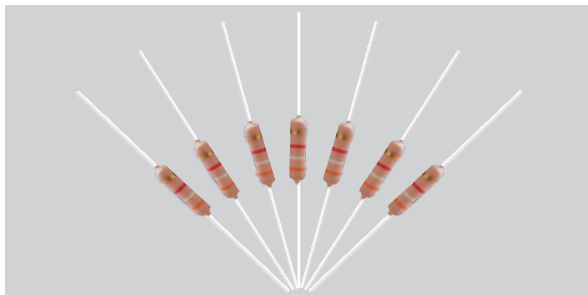


RWS Wire Wound Resistor (Small Type)

Catalogue

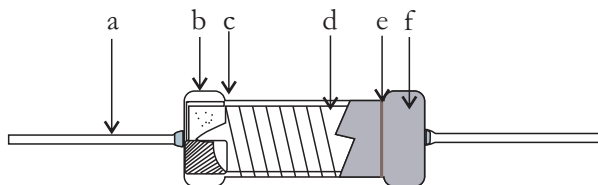
- Feature
- Constructions
- Dimensions, Applications And Ratings
- Ordering Information
- Reference Standards
- Derating Curve
- Surface Temperature Rise
- Performance



Features

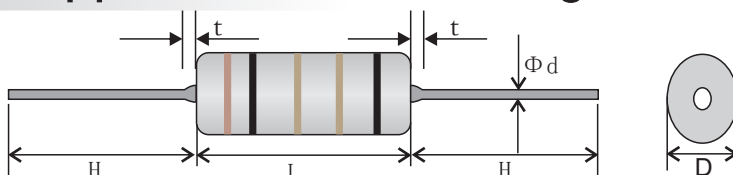
- I Flameproof and insulating coating designed to assure safe usage by special non-flammable silicon-base. (Eqyuvakebt to UL94V-0)
- II Good heat-durability, low temperature coefficient, low noise, high overload power
- III High stability, long life
- IV Products meet Eu-RoHS.

Construction



a	Lead wire
b	Cap
c	Ceramic base
d	Wire wound
e	Marking or color code
f	Insulation coat

Dimensions, Applications And Ratings



Type	Power	Resistance Range(Ω)	Dimensions(mm)					Max working Voltage	Dielectric with standing	T.C.R
			L±1	t max	D±0.5	H±3	d±0.05			
RWS14	1/4W	0.1~1KΩ	3.0	1.5	2.0	28.0	0.60	50V	250V	≥10Ω ±20PPM/°C
RWS12	1/2W	0.1~2KΩ	6.5	1.5	2.50	28.0	0.60	50V	350V	
RWS01	1W	0.1~3KΩ	9.0	2.5	3.50	28.0	0.70	50V	350V	
RWS02	2W	0.1~5KΩ	11.0	2.5	4.50	28.0	0.70	200V	350V	1~9.9Ω ±50PPM/°C
RWS03	3W	0.1~5KΩ	15.0	2.5	5.0	28.0	0.70	200V	500V	
RWS04	4W	0.1~10KΩ	18.0	2.5	6.0	28.0	0.70	200V	500V	0.1~0.99Ω 100PPM/°C
RWS05	5W	0.1~10KΩ	18.0	2.5	6.0	30.0	0.75	200V	500V	
RWS06	6W	0.1~10KΩ	19.0	2.5	7.0	33.0	0.75	200V	500V	0.05~0.099Ω 300PPM/°C
RWS07	7W	0.1~10KΩ	22.0	2.5	7.50	33.0	0.75	300V	500V	
RWS08	8W	0.1~10KΩ	25.0	2.5	8.0	33.0	0.75	300V	500V	0.01~0.049Ω 600PPM/°C
RWS09	9W	0.1~10KΩ	32.0	2.5	8.0	33.0	0.75	500V	500V	
RWS10	10W	0.1~15KΩ	32.0	2.5	8.0	33.0	0.75	500V	500V	0.01~0.049Ω 600PPM/°C
RWS12	12W	0.1~15KΩ	36.0	2.5	8.50	33.0	0.80	1000V	500V	

Note: KNP for standard product; RSS for mini size; HVS for high voltage impulse product;KNR for non-inductive products. More request please contact our engineer kkt@kktcom.com

Ordering Information

Example:

RWS	14	J	R100
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1)Type: RWS SERIES

(2)Power Rating: 14=1/4W、12=1/2W、1=1W、2=2W、3=3W

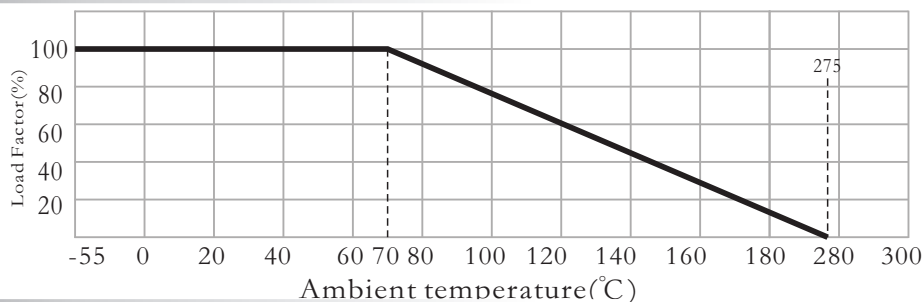
(3)Tolerance: J=±5%

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

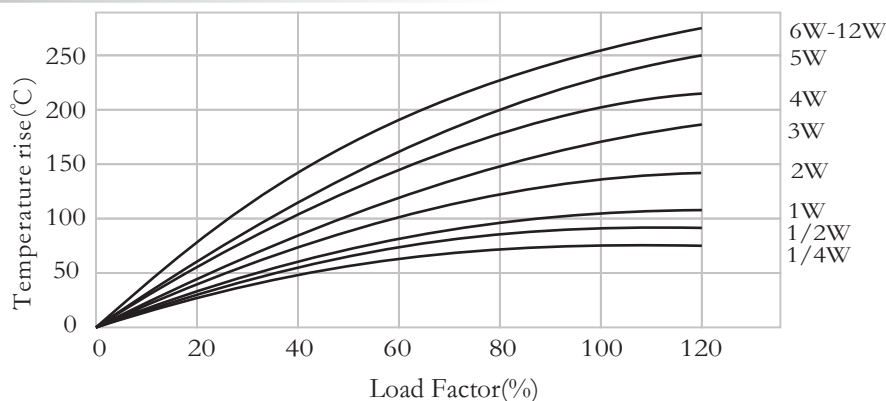
Reference Standards

JISC 5201-1

Derating Curve



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	$\pm(1\%R+0.05\Omega)$	4 times the rated power for 5 seconds
Load life	$\pm(5\%R+0.1\Omega)$	Rated voltage at 70°C for 1,000 hours 1.5hr ON/0.5hr OFF Cycles
Load life in humidity	$\pm(5\%R+0.1\Omega)$	Rated voltage at 40°C ,95%RH for 1,000 hours
Moisture resistance	$\pm(1\%R+0.05\Omega)$	40°C ,95%RH for 240 hours
Temperature cycle	$\pm(1\%R+0.05\Omega)$	5 cycles for -25°C (30min);room temp.(30min) ~+85°C (30min)room temp.(30min)
Solderability	95%(min)coverage	Temp. of solder 245°C \pm 5°C duration of immersion 3s \pm 0.5s
Resistance to soldering heat	$\pm(1\%R+0.05\Omega)$	260°C \pm 5°C for 10 seconds 350°C \pm 10°C for 3.5 seconds
Insulation resistance	> 1,000M Ω	500V insulation test 1min.
Flameproof	No obvious of flaming or arcing	AC voltage of 2,4,6,8,16,32 times the power rating for 1min.(V \leq 4times max, working voltage)