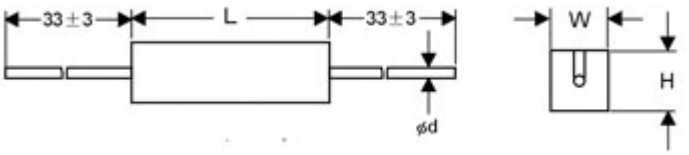
RX-27

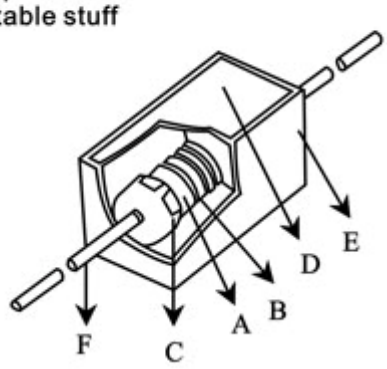
I. Features

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

II. Dimension and Structure

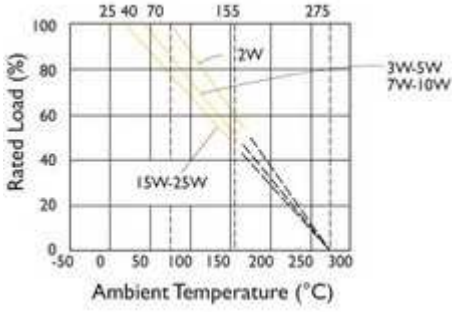


A:ceramic core
B:alloy lead
C:end cap
D:high stable stuff
E:ceramic shell
F:lead



Type	Dimension(mm)				Resistance Range	
Power	W±1	H±1	L±1	d±0.05	Wire-wound	Oxide rod
SQP1W	6	6	13	0.6	0.1Ω-300Ω	110Ω-100KΩ
SQP2W	7	7	18	0.6	0.1Ω-300Ω	110Ω-100KΩ
SQP3W	8	8	22	0.75	0.1Ω-300Ω	130Ω-100KΩ
SQP5W	10	9	22	0.75	0.1Ω-300Ω	200Ω-100KΩ
SQP7W	10	9	35	0.75	0.1Ω-300Ω	240Ω-100KΩ
SQP10W	10	9	48	0.75	0.1Ω-300Ω	300Ω-100KΩ
SQP15W	12.5	12.5	48	0.75	0.1Ω-300Ω	300Ω-100KΩ
SQP20W	13	13	64	0.75	0.1Ω-300Ω	300Ω-100KΩ
SQP25W	13	13	64	0.75	0.1Ω-300Ω	300Ω-100KΩ
SQP30W	19	20	76	0.8	1Ω-300Ω	300Ω-100KΩ
SQP40W	19	20	90	1.0	1Ω-300Ω	300Ω-100KΩ
SQP50W	20	20	90	1.0	1Ω-300Ω	300Ω-100KΩ
SQP100W	25	25	135	1.0	1Ω-300Ω	300Ω-100KΩ

III. Derating Curve and Surface Temperature Rise Curve



IV. Electrical Characteristics

Item	Performance requirement	Test methods
Temperature Coefficient:	Wire coiling: -300ppm/C≤ a ≤+300ppm/C Oxide rod: -350ppm/C≤ a ≤+350ppm/C	JIS5202-5.2 -55C to +155C T.C.R=(R2-R1)×10?6/ R1 ×(T2-T1)(PPM/C) R1:Resistance value at room temperature(T1); R2:Resistance value at room temperature+100C(T2)
Short time overload:	ΔR≤±(2% R0+0.1Ω)	JIS5202-5.5 2.5times RCWV for 5 seconds
Resistance to soldering heat:	ΔR≤ ±(1%R0+0.05Ω)	JIS5202-6.4 350C±10C for3±0.5 seconds
Solderability:	The area of soldering is over 95%	JIS5202-6.5 235□for5±0.5 seconds
Temperature cycling:	ΔR≤± (5% R0+0.1Ω)	JIS5202-7.4 →65C→room temp. →150C→room temp. for 5 cycles
Load life in moisture:	ΔR≤±(5% R0+0.1Ω)	JIS5202-7.9 40±2C,90~95% RH at RCWV for 1000 hrs. (1.5 hrs. on, 0.5 hrs. off)
Nonflammability:	No visible flame	SJ3272-4.2