

# KF熔断型线绕电阻器 wire-wound fuse resistors



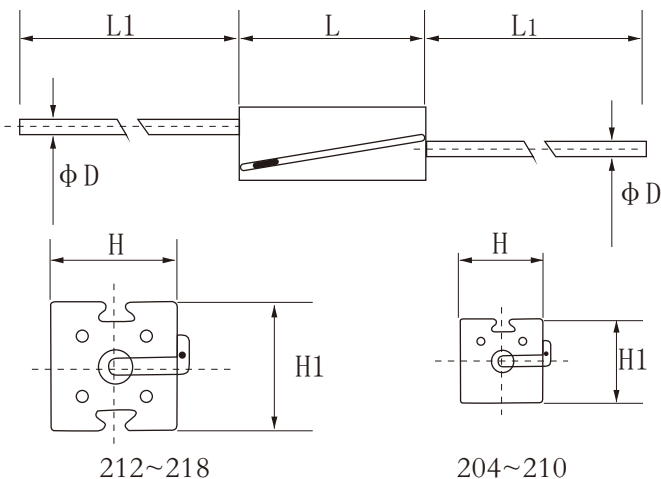
## ● 特点 Features

- I 电阻兼具保险丝的作用 Fusible function
- II 可修复,重复使用 Resumable and can be recycled

## ● 应用范围 Applications

- I 主要应用于仪器仪表 Mostly used in meters and instruments
- II 电子设备等保护电路中 Protection circuit of electrical devices

## ● 尺寸 Construction(mm)



型号 Model	类型 Type	额定功率 Rated Power(W)		外形尺寸 Dimensions(mm)				
		25°C	70°C	L	L1 ± 3	φD ± 0.05	H ± 0.4	H1 ± 0.4
KF	204-4	2.0	1.0	10 ± 1.0	30	0.7	5.0	5.0
	206-4	2.5	1.2	20 ± 1.0	36	0.8	7.0	8.0
	208-4	3.0	1.5	25 ± 1.0	36	0.8	7.0	8.0
	210-4	4.5	2.5	38 ± 1.0	36	0.8	7.0	8.0
	212-4	3.5	2.5	25 ± 1.0	36	0.8	9.0	10.0
	214-4	5.0	3.0	38 ± 1.0	36	0.8	9.0	10.0
	216-4	7.0	4.0	50 ± 1.5	36	0.8	9.0	10.0
	218-4	11.0	6.0	75 ± 2.0	36	0.8	9.0	10.0

## ● 料号编号 Ordering Information

Example:

KF	210-4	2W	J	100R0
型号 Model	类型 Type	额定功率 Power	精度 Tolerances	阻值(Ω) Resistance Range
KF	204-4	2W	J = ± 5% K = ± 10%	0R100 = 0.1Ω 1R00 = 1Ω 100R0 = 100Ω
	206-4	2.5W		
	208-4	3W		
	210-4	3.5W		
	212-4	.....		

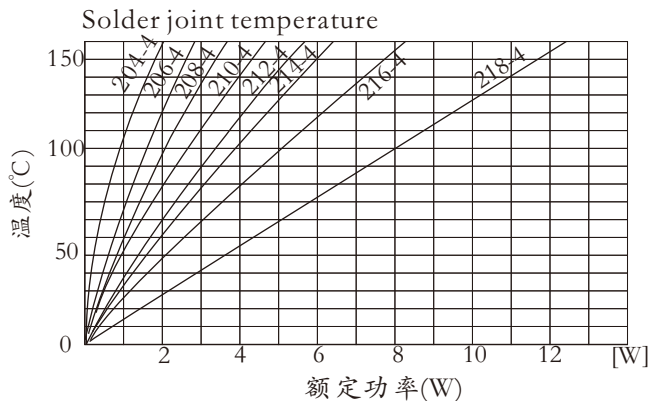
## ● 执行标准 Reference Standards

Q/ATK04-91

## ● 功率、阻值范围Power And Resistance Range

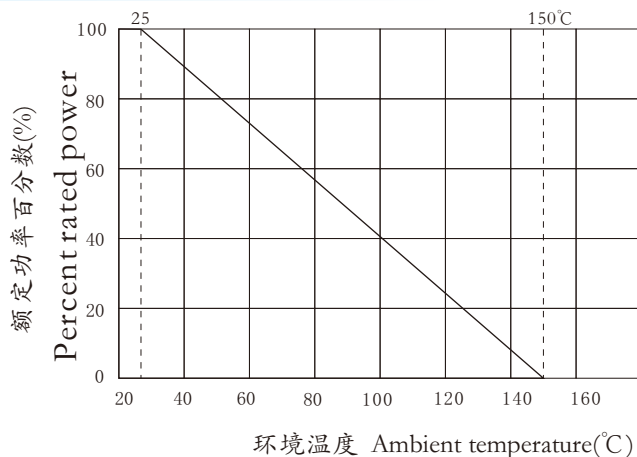
型号 Model	类型 Type	额定功率Rated Power(W)		阻值 Resistance Range (Ω)	
		25°C	70°C	最少值Min	最大值Max
KF	204-4	2.0	1.0	R10	200
	206-4	2.5	1.2	R10	1K
	208-4	3.0	1.5	R15	1K5
	210-4	4.5	2.5	R33	3K3
	212-4	3.5	2.5	R15	1K5
	214-4	5.0	3.0	R33	3K3
	216-4	7.0	4.0	R51	4K7
	218-4	11.0	6.0	R91	8K2

## ● 焊点温升图Solder joint temperature rise graph



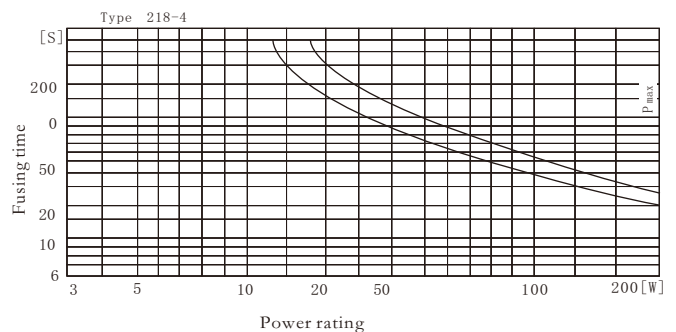
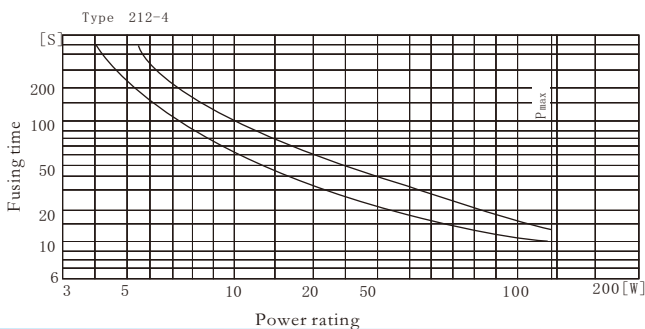
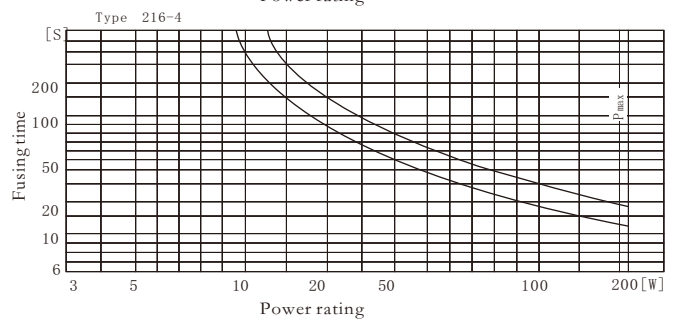
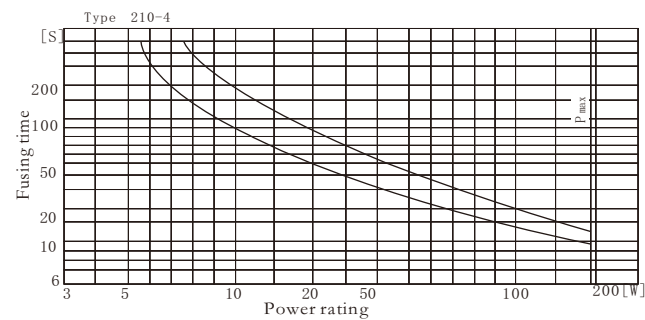
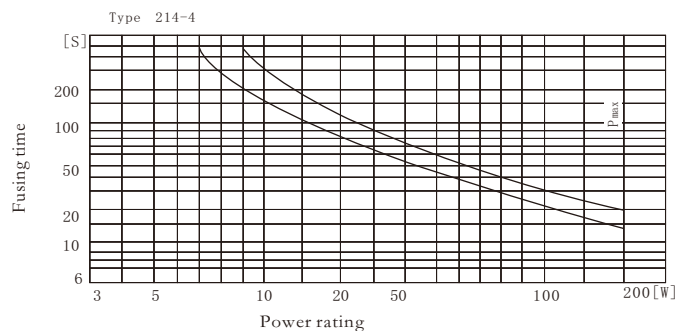
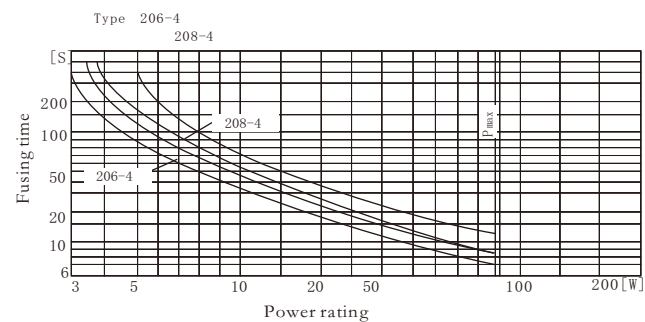
在正常工作条件下，焊点温度不得超过150°C，焊点温度等于环境温度加上施负荷引起的温升。  
Temperature at solder joint should never exceed 150°C under normal working conditions. solder joint temperature is defined as sum of ambient temperature and temperature rise caused by applied load.

## ● 降功耗曲线Derating Curve



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## 熔断时间与负荷图Fusing time and power rating graph



## 性能Performance

试验项目 TEST ITEM	性能要求 SPECIFICATIONS
精度(Tolerances)	$\pm 5\%$ (J) , $\pm 10\%$ (K)
温度系数(Temperature coefficient)	$(-80 \sim +500) \times 10^{-6}/^{\circ}\text{C}$
最大持续工作电压(Max.cont.work.voltage)	$\sqrt{P \times R}$
绝缘电压(Insulation voltage)	2000V
绝缘电阻(Insulation resistance)	$\geq 1\text{G}\Omega$
气候类别(Climatic category)	55/150/56
温度范围(Temperature range)	$-55 \sim 150^{\circ}\text{C}$
降功耗(Derating)	参看“焊点温升图” Reference “Solder temperature chart”
失效率(Failure rate)	近似值 Approximate value $100 \times 10^9 \text{h}^{-1}$
长期过载(Load life) P70, 70°C, 1000hrs	$\Delta R \leq \pm (5\%R + 1.0\Omega)$
稳态湿热(Damp heat, steady steady) 40°C, 93%, r,h,56d	$\Delta R \leq \pm (5\%R + 1.0\Omega)$
气候顺序(Climatic category)	$\Delta R \leq \pm (5\%R + 1.0\Omega)$
引出端强度(Terminal tensile strength)	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
抗拉强度 (Anti-pull strength)	50N
耐焊接热 (Resistance to sold, heat) 260°C, 10s	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
可焊性 (Solderbility)	IEC68-2-20(1968)槽焊法, $235 \pm 5^{\circ}\text{C}, 2 \pm 5\text{s}$ (solder bath method)