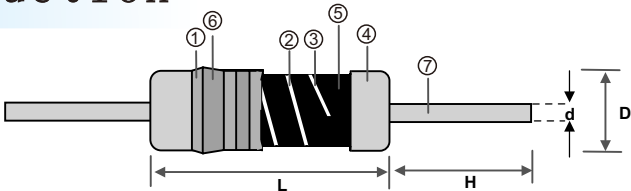


MFP 精密金属膜电阻 Precision Metal Film Resistors



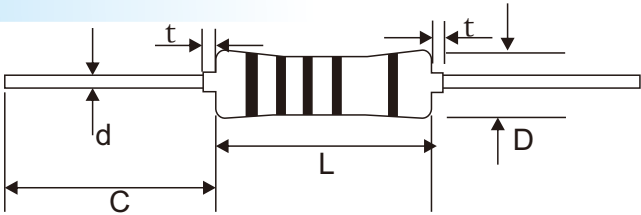
本体颜色: Body Color
标准品: Standard (Blue 蓝色)
标示: Marking
文字: Alphanumeric
(根据客户要求提供相应标识)
(According to the customer request to provide corresponding identification)

● 结构图 Construction



①	②	③	④	⑤	⑥	⑦
绝缘层	刻槽线	陶瓷棒	镀锡铁帽	电阻膜层 (镍合金)	标志	引线
Insulation Coating (Expose resin)	Trimming Line	Ceramic Rod (Alumina ceramic)	Electrode Cap (Tinned iron cap)	Resistor Layer (Nickel alloy)	Marking (Expose)	Lead Wire (Tinned annealed copper wire)

● 外形尺寸 Dimensions



规格 Type	功率 Power	尺寸 Dimensions (mm)				
		L	D	C	d	t Max
MFP	1/8W	3.3 ± 0.5	1.8 ± 0.3	26 ± 3	0.43 ± 0.05	1.5
	1/4W	6.3 ± 0.5	2.3 ± 0.3	26 ± 3	0.45 ± 0.05	1.5
	1/2W	9.0 ± 0.5	3.2 ± 0.5	26 ± 3	0.50 ± 0.05	2.0
	1W	12 ± 1.0	4.5 ± 0.5	26 ± 3	0.60 ± 0.05	2.5
	2W	15 ± 1.0	5.0 ± 0.5	26 ± 3	0.70 ± 0.05	2.5

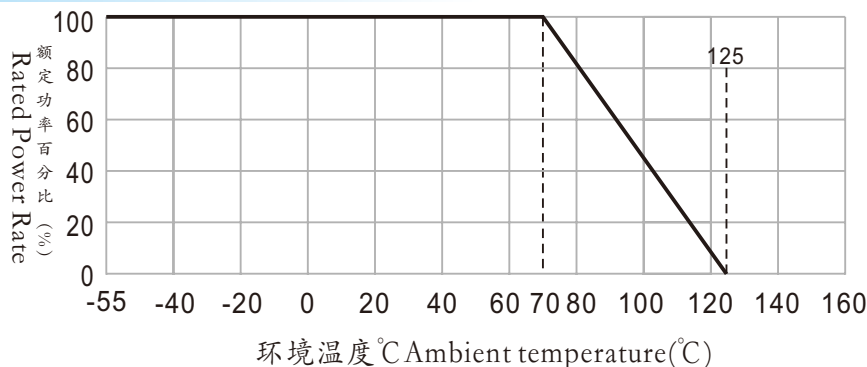
● 特性 Feature

- I 优良的高频特性
Excellent high frequency characteristic
- II 长期稳定性、低噪音系数、低温度系数
Long term stability, low noise coefficient, low TCR
- III 高精度, 高稳定度
High precision high stability
- IV 采用蓝色或者绿色涂料包封, 色环标志, 可编带包装或散装包装
Blue or green flame-retardant coating colour code marking available, taping reel or bulk

● 参考规格 Reference Standards

JIS C 5201-1

● 降功耗曲线 Derating Curve



● 功率、阻值范围与耐电压 Power And Resistance etc

规格 Type	额定功率 Rated Power(W)	最高使用电压 MaxWorking Voltage(V)	绝缘电压 Insulate Voltage(V)	阻值范围 Resistance Range(Ω)	电阻温度系数 (+25~85°C) TCR(PPM/°C)	精度范围 Tolerance Range	额定功率 环境温度 Power Rating Ambient Temperature	使用温度范围 Operating Temperature
MFP	1/8W	200	300	0.1~2M	±5PPM	±0.05%	-55~70°C	-55~125°C
	1/4W	250	350	0.1~15M	±10PPM	±0.1%		
	1/2W	350	500	0.1~22M	±15PPM	±0.25%		
	1W	500	500	0.1~22M	±25PPM	±0.5%		
	2W	500	500	0.1~22M	±50PPM ±100PPM	±1.0% ±5.0%		

● 性能 Performance

试验项目 Test Items	性能 Performance	试验方法 Test Methods(JIS C 5201-1)
可焊性 Solderability	≥95%	235 ± 5°C, 2 ± 0.5s
短时间过负载 Short time overload	$\Delta R \leq \pm (0.25\%R + 0.05\Omega)$	2.5VR, 5s
温度快速变化 Rapid change of temperature	$\Delta R \leq \pm (0.25\%R + 0.05\Omega)$	-55°C / 125°C, 30min 5cycles
耐焊接热 Leaching	$\Delta R \leq \pm (0.25\%R + 0.05\Omega)$	260 ± 10°C, 10 ± 1s
气候顺序 Climatic category	$\Delta R \leq \pm (1\%R + 0.1\Omega)$	-10~65°C, 湿度>90%, 循环240h
70°C 耐久性 Endurance at 70°C	$\Delta R \leq \pm (1\%R + 0.1\Omega)$	70 ± 2°C, PR1000h

● 料号编号 ordering Information

例 example

MFP	1/10W	B	C	T	1001
产品名称 Product Name	功率 Power	精度 Tol	温度系数 TCR	包装方式 Packing	标称阻值 Nominal Value
MFP	1/8W 1/4W 1/2W 1W 2W	W(±0.05%) B(±0.1%) C(±0.25%) D(±0.5%) F(±1.0%) J(±5.0%)	C7:±5PPM C6:±10PPM C5:±15PPM C4:±20PPM C3:±25PPM C2:±50PPM	塑料袋 plastic bag 编带 tape	1001=1KΩ 1122=11.2KΩ 1R00=1Ω 0R495=0.495Ω 1114=1.11MΩ 2205=22MΩ