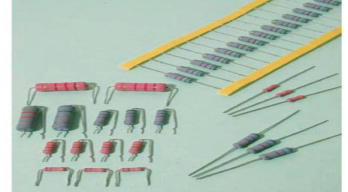


## RY 型系列 金属氧化膜固定电阻器 Series RY Metal oxide film fixed resistors

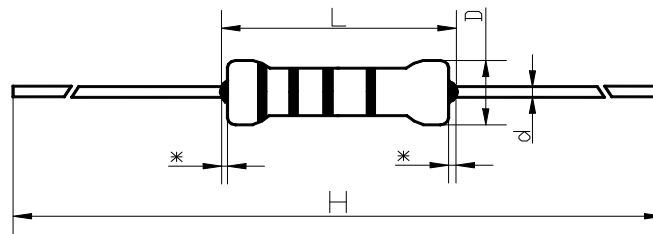
### 一、产品特点: Features

- 1、使用温度范围高 Wide range of operating temperature
- 2、体积小、信赖性高 Small size and high reliability
- 3、抗潮湿、抗氧化、过负荷能力强、长期工作稳定  
Anti wet,anti oxidation,powerful overload capacity,long-term operating st ability
- 4、体积小、便于安装 Small size and easy installation
- 6、包封层为灰色不燃性耐高温涂料, 安全性高 The coating is a grey non-combustible high temperature resistant coating with high safety
- 7、产品符合欧盟 ROHS 要求 Products meet EU-ROHS

### 二、产品实物图片 Picture

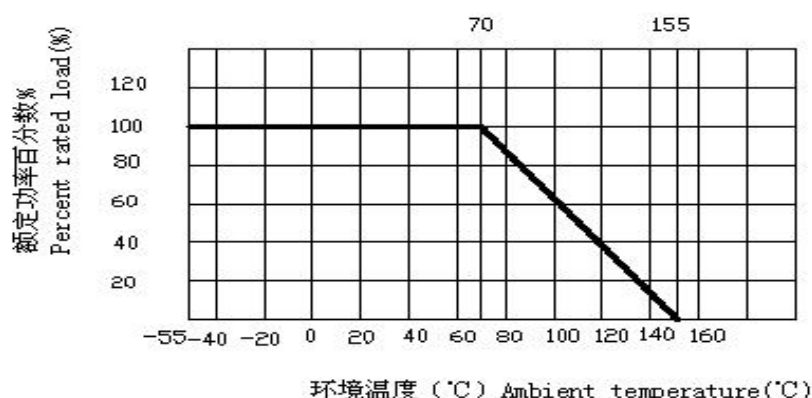


### 三、外形尺寸 Dimensions



型号 Type	额定功率 $P_R$ (W)	尺寸 Dimensions (mm)				漆根长度*The length of paints on the pin (mm)
		Dmax	Lmax	H±1	d±0.05	
RY14	1/4	3.0	7.5	60~70	0.43~0.60	≤1
RY15	1/2	4.0	10.5	60~100	0.43~0.60	≤1
RY16	1	5.0	12	60~80	0.50~0.60	≤1
RY17	2	5.5	16	60~80	0.60~0.72	≤1.5
RY18	3	6.5	18	60~80	0.60~0.72	≤1.5
RY19	5	8.5	25	60~80	0.60~0.72	≤1.5
RY24	1/2	3.0	7.5	60~70	0.43~0.60	≤1
RY25	1	4.0	10.5	60~100	0.43~0.60	≤1
RY26	2	5.0	12	60~80	0.50~0.60	≤1
RY27	3	5.5	16	60~80	0.60~0.72	≤1.5
RY28	5	6.5	18	60~80	0.60~0.72	≤1.5

### 四、降功耗曲线图 Power derating curve



五、主要技术指标 Technical and standard electrical specifications

型号 Type	额定功率 P <sub>R</sub> (W)	温度系数 TCR 10 <sup>-6</sup> /°C	阻值范围 Resistance range (Ω)	阻值允许偏差 Resistance Tolerance (%)	绝缘耐压 (直流或交流峰值) Withstand voltage (DC of AC peak value)(V)	元件极限电压 Element limit voltage (Ω)	使用温度范围 Operating Temp.Range (°C)
RY14	1/4	± 350	1~75K	± 5、± 10	250	200	-55~+155
RY15	1/2		1~75K		250	200	
RY16	1		1~100K		350	300	
RY17	2		1~120K		350	300	
RY18	3		1~150K		350	400	
RY19	5		1~150K		500	400	
RY24	1/2	± 350	1~22K		250	200	
RY25	1		1~22K		350	250	
RY26	2		1~68K		350	350	
RY27	3		1~68K		350	350	
RY28	5		1~100K		500	500	

六、基本特性 The basic features

试验项目 Test item	试验方法 Test method	性能要求 Specifications
短时过负荷 Short time overload	2.5U <sub>R</sub> , 5s	ΔR ≤ ± (1%R+0.05Ω)
耐焊接热 Resistance to soldering heat	260°C ± 5°C, 10s ± 5s, 2+0.5mm	ΔR ≤ ± (1%R+0.05Ω)
可焊性 Solderability	265°C ± 5°C, 5s ± 0.5s, 2+0.5mm	浸锡面 covered ≥ 95%
引出端强度 Terminal strength	拉力 Tensile:10N 弯曲 Bending:2 次 times 扭转 Torsion:180°, 2 次 times	ΔR ≤ ± (1%R+0.05Ω)
温度快速变化 Rapid Change of temperature	-55°C ~ +125°C, 5cycles	ΔR ≤ ± (2%R+0.05Ω)
室温耐久性 Endurance at room temperature	Room temp, U <sub>R</sub> , 1000h	ΔR ≤ ± (5%R+0.1Ω)
气候顺序 Climate sequence	GB/T5729-2003 中 4.23 条 As specified in GB/T5729-2003, item 4.23	ΔR ≤ ± (5%R+0.5Ω)
振动 Vibration	(10~500)Hz, 0.75mm 或 98/s <sup>2</sup> (取较小者 whichever smaller), 6h	ΔR ≤ ± (1%R+0.05Ω)
上限类别温度耐久性 Endurance at upper category temperature	155°C, 1000h	ΔR ≤ ± (5%R+0.5Ω)
稳态湿热 Damp heat, steady state	40°C ± 2°C, RH(90~95)%, 21days	ΔR ≤ ± (5%R+0.5Ω)

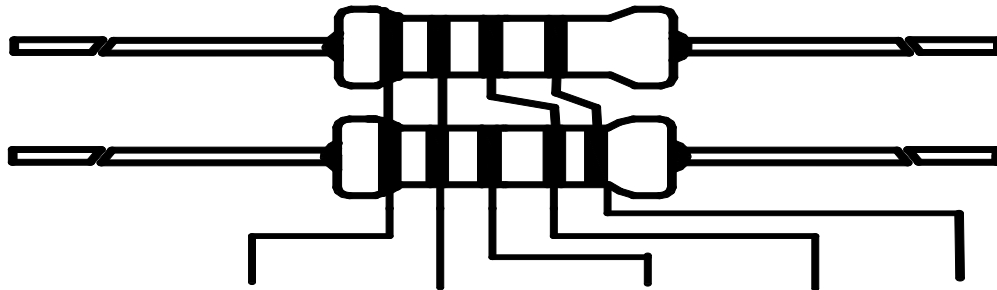
七、订货指南 Ordering Information

RY14-0.25W-15Ω-J-加工方式

型号 Type--额定功率 Rated Power—标称阻值 Nominal Resistance---允许偏差 Tolerance-加工方式 Processing way

对于本页内容的任何变更，恕不另行通知。订货前请确认技术参数。Specifications are subject to change without notice

## 一、电阻器色环标识 Resistor color ring identification



颜色 Color	第 1 数字 First digit	第 2 数字 Second digit	第 3 数字 Third digit	乘数 Multiplier	误差率 Tolerance
黑 Black	0	0	0	$10^0$	—
棕 Brown	1	1	1	$10^1$	±1
红 Red	2	2	2	$10^2$	±2
橙 Orange	3	3	3	$10^3$	—
黄 Yellow	4	4	4	$10^4$	—
绿 Green	5	5	5	$10^5$	±0.5
蓝 Blue	6	6	6	$10^6$	±0.25
紫 Violet	7	7	7	$10^7$	±0.1
灰 Gray	8	8	8	$10^8$	—
白 White	9	9	9	$10^9$	—
金 Gold	—	—	—	$10^{-1}$	±5
银 Silver	—	—	—	$10^{-2}$	±10
无 Plain	—	—	—	—	—

## 二、电阻器标称 Resistor nominal

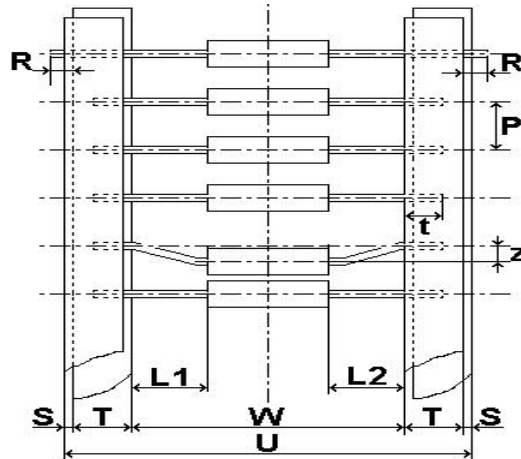
### 电阻器标称阻值系列 Series of resistor values

E12	E24	E96	E192	E96	E192	E96	E192	E96	E192
10	10	100	100	178	178	316	316	562	562
			101		180		320		569
	11	102	102	182	182	324	324	576	576
			104		184		328		583
12	12	105	105	187	187	332	332	590	590
			106		189		336		597
	13	107	107	191	191	340	340	604	604
			109		193		344		612
15	15	110	110	196	196	348	348	619	619
			111		198		352		626

	16	113	113	200	200	357	357	634	634
			114		203		361		642
18	18	115	115	205	205	365	365	649	649
			117		208		370		657
	20	118	118	210	210	374	374	665	665
			120		213		379		673
22	22	121	121	215	215	383	383	681	681
			123		218		388		690
	24	124	124	221	221	392	392	698	698
			126		223		397		706
27	27	127	127	226	226	402	402	715	715
			129		229		407		723
	30	130	130	232	232	412	412	732	732
			132		234		417		741
33	33	133	133	237	237	422	422	750	750
			135		240		427		759
	36	137	137	243	243	432	432	768	768
			138		246		437		777
39	39	140	140	249	249	442	442	787	787
			142		252		448		796
	43	143	143	255	255	453	453	806	806
			145		258		459		816
47	47	147	147	261	261	464	464	825	825
			149		264		470		835
	51	150	150	267	267	475	475	845	845
			152		271		481		856
56	56	154	154	274	274	487	487	866	866
			156		277		493		876
	62	158	158	280	280	499	499	887	887
			160		284		505		898
68	68	162	162	287	287	511	511	909	909
			164		291		517		920
	75	165	165	294	294	523	523	931	931
			167		298		530		942
82	82	169	169	301	301	536	536	953	953
			172		305		542		965
	91	174	174	309	309	549	549	976	976
			176		312		556		988

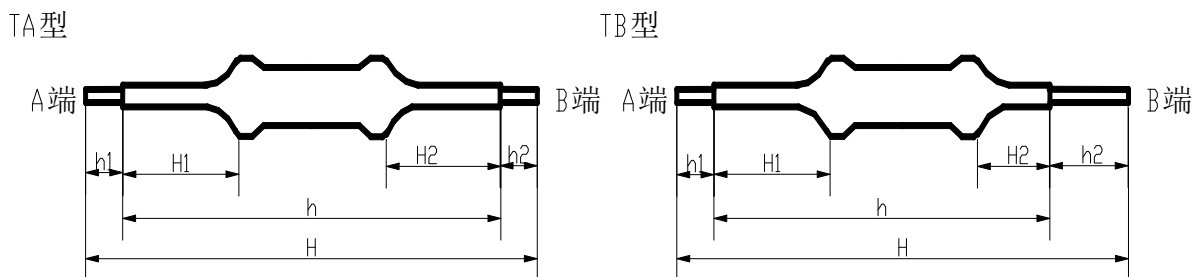
### 三、加工方式 Processing mode:

#### 1、轴式编带式样及尺寸 The shape and size of shaft braid



编带规格 Braided specifications	尺寸 Dimensions (mm)								
	U	W	P	L1-L2	T	Z	R	t	S
T26	38±1	26±0.5	5±0.5	<0.5	6±0.1	≤1	0	≥3.2	<0.8
T52	64±2	52±1		<1					
T63	75±2	63±1	10±0.5			≤1,2			
T72	84±2	72±2	5±0.5	<1.2					
	84±2	72±2	10±0.5						

#### 2、套管式样及尺寸 The shape and size of the casing



形状 Shape	尺寸 Dimensions (mm)					
	H±1	H1±1	H2±1	h ≤ h (1±5%)	h1±0.7	h2±2
TA 型	70	20	20	50	10	10
TB 型	80	5	25	40	10	30

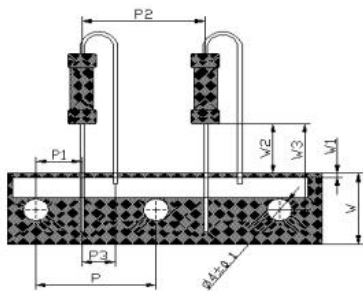
注：套管尺寸可根据客户要求制做

Remark: The casing size can be made according to customer demands

### 3、立式编带式样及尺寸 Vertical braid pattern and size

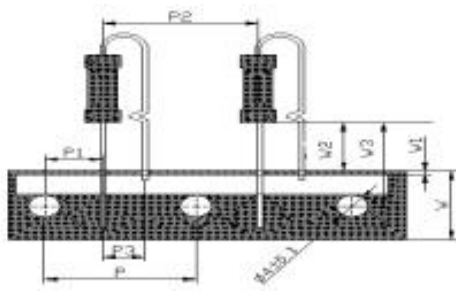
P1 立式编带加工式样

P1 vertical braid processing style



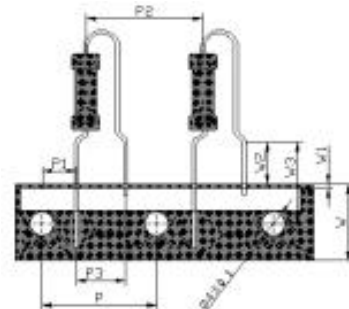
P2 立式编带加工式样

P2 vertical braid processing style



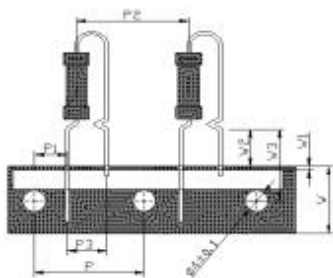
P3 立式编带加工式样

P3 vertical braid processing style



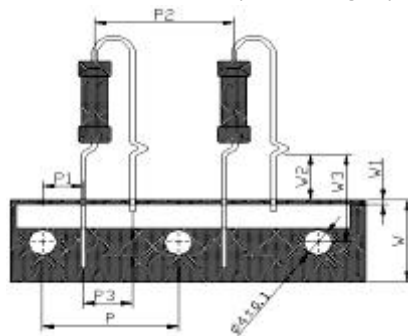
P4 立式编带加工式样

P4 vertical braid processing style



P5 立式编带加工式样

P5 vertical braid processing style



立编方式 Vertical mode	尺寸 Dimensions (mm)							
	$P \pm 0.7$	$P1 \pm 0.7$	$P2 \pm 1.0$	$P3 \pm 0.5$	$W \pm 0.5$	W1	W2	W3
P1	12.7	3.85	12.7	5.0	18.0	$0.5 < W1 < 1$	$W2 > 7.0$	$17 \pm 1.0$
P2	12.7	3.85	12.7	5.0	18.0	$0.5 < W1 < 1$	$W2 > 7.0$	$17 \pm 1.0$
P3	12.7	3.85	12.7	5.0	18.0	$0.5 < W1 < 1$	$W2 > 7.0$	$17 \pm 1.0$
P4	12.7	3.85	12.7	5.0	18.0	$0.5 < W1 < 1$	$W2 > 7.0$	$17 \pm 1.0$
P5	12.7	3.85	12.7	5.0	18.0	$0.5 < W1 < 1$	$W2 > 7.0$	$17 \pm 1.0$