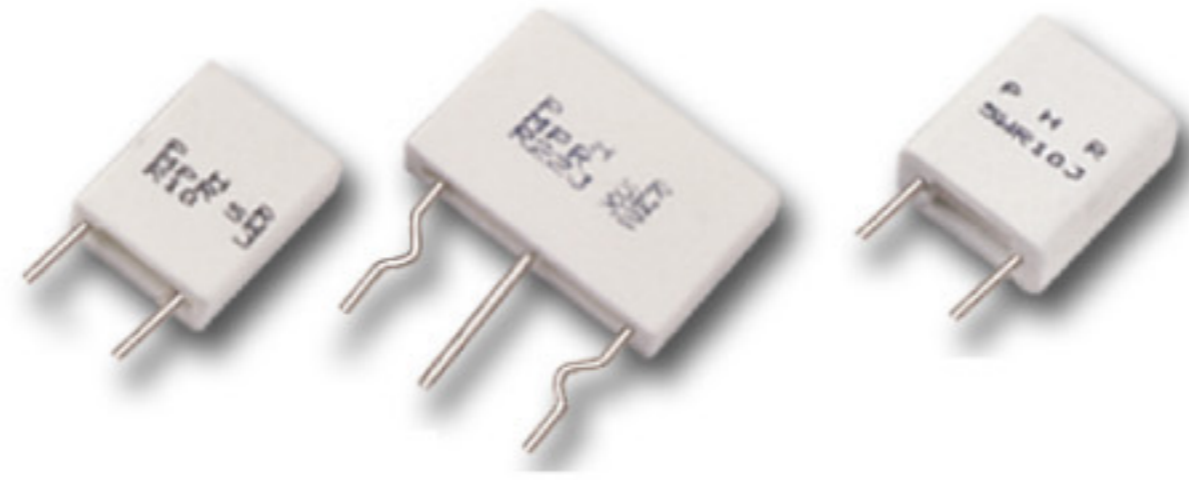


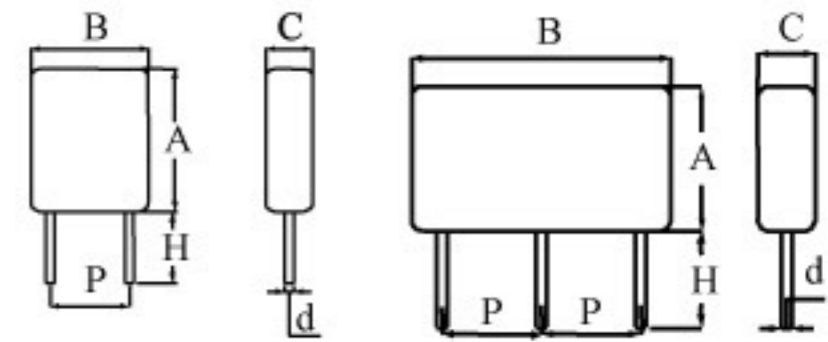
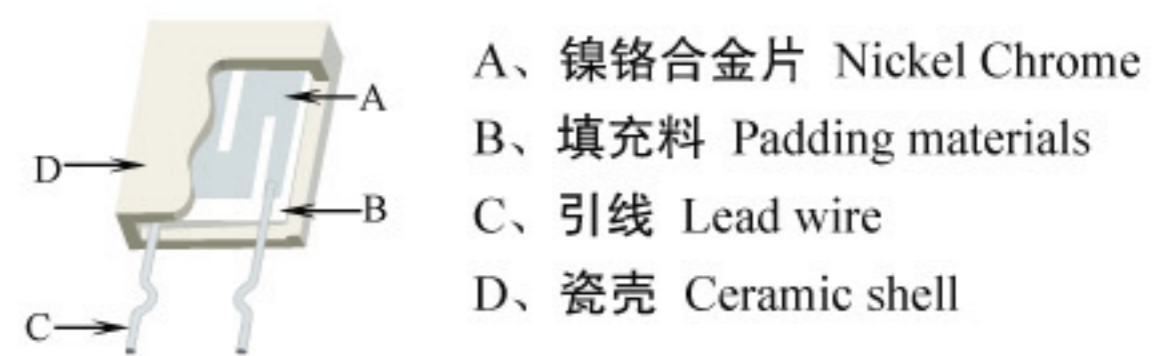
# 金属片无感水泥电阻器 Metal Plate Noninductive Cement Resistors (MPR)



## ●特点 Features:

- 1、耐热性好、温度系数小、噪声低、负荷功率大。Good heat-durability and low temperature coefficient, low noise, high overload power.
- 2、使用环境温度 Operating ambient temperature:  $-55^{\circ}\text{C} \sim +275^{\circ}\text{C}$ 。
- 3、低电感 Low inductance。
- 4、精度范围 Resistance tolerance:  $\pm 5\%$ 、 $\pm 10\%$ 。

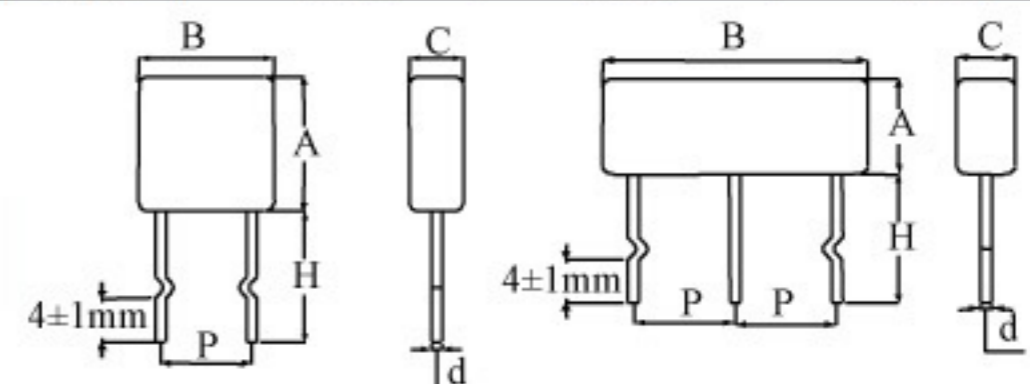
## ●产品结构图 Construction Drawing:



## ●E型直脚尺寸 E Frank Forming Type Dimensions:

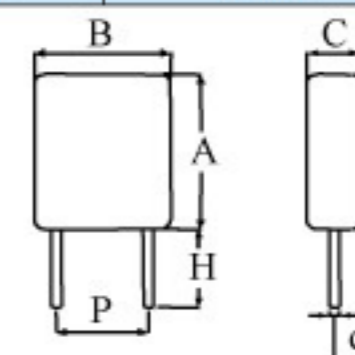
料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions(mm)						最大工作电压 Max. working voltage	最大负荷电压 Max. overload Voltage	最高绝缘电压 Max. insulation voltage
			A $\pm 1.5$	B $\pm 1.5$	C $\pm 1.5$	H $\pm 1.5$	P $\pm 1.5$	d $\pm 0.05$			
MPR02B	2W	0R01~2R2	8.5	14.0	5.0	4~18	9.0	0.75	100V	100V	800V
MPR03B	3W	0R01~2R2	13.0	14.0	5.0	4~18	9.0	0.75	100V	100V	800V
MPR05B	5W	0R01~2R7	18.0	14.0	5.0	4~18	9.5	0.75	150V	150V	1000V
MPR07B	7W	0R01~2R7	18.0	14.0	5.0	4~18	9.5	0.75	150V	150V	1000V
MPR10B	10W	0R01~4R7	17.0	26.0	5.0	4~18	20.0	0.75	300V	300V	1000V
MPR2B2	2W+2W	0R01~4R7	8.5	26.0	5.0	4~18	10.0	0.75	200V	200V	1000V
MPR3B3	3W+3W	0R01~4R7	13.0	26.0	5.0	4~18	10.0	0.75	250V	250V	1000V
MPR5B5	5W+5W	0R01~4R7	17.0	26.0	5.0	4~18	10.0	0.75	300V	300V	1000V
MPR7B7	7W+7W	0R01~4R7	20.0	26.0	5.0	4~18	10.0	0.75	350V	350V	1000V
MPR5B5	5W+5W(EA型)	0R01~4R7	14.0	26.0	8.0	4~18	10.0	0.75	350V	350V	1000V

## ●E型弯脚尺寸 E Bend Forming Type Dimensions:



料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions(mm)						最大工作电压 Max. working voltage	最大负荷电压 Max. overload Voltage	最高绝缘电压 Max. insulation voltage
			A $\pm 1.5$	B $\pm 1.5$	C $\pm 1.5$	H $\pm 1.5$	P $\pm 1.5$	d $\pm 0.05$			
02B	2W	0R01~2R2	8.5	14.0	5.0	13.0	9.0	0.75	100V	100V	800V
03B	3W	0R01~2R2	13.0	14.0	5.0	13.0	9.0	0.75	100V	100V	800V
05B	5W	0R01~2R7	18.0	14.0	5.0	13.0	9.5	0.75	150V	150V	1000V
07B	7W	0R01~2R7	18.0	14.0	5.0	13.0	9.5	0.75	150V	150V	1000V
10B	10W	0R01~4R7	17.0	26.0	5.0	13.0	20.0	0.75	300V	300V	1000V
2B2	2W+2W	0R01~4R7	8.5	26.0	5.0	13.0	10.0	0.75	200V	200V	1000V
3B3	3W+3W	0R01~4R7	13.0	26.0	5.0	13.0	10.0	0.75	250V	250V	1000V
5B5	5W+5W	0R01~4R7	17.0	26.0	5.0	13.0	10.0	0.75	300V	300V	1000V
7B7	7W+7W	0R01~4R7	20.0	26.0	5.0	13.0	10.0	0.75	350V	350V	1000V
5B5	5W+5W(EA型)	0R01~4R7	14.0	26.0	8.0	13.0	10.0	0.75	350V	350V	1000V

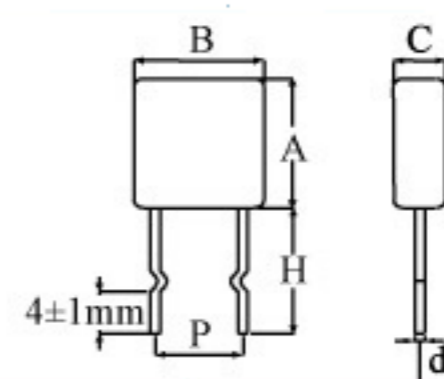
## ●EC型直脚尺寸 EC Frank Forming Type Dimensions:



料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions(mm)						最大工作电压 Max. working voltage	最大负荷电压 Max. overload Voltage	最高绝缘电压 Max. insulation voltage
			A $\pm 1.5$	B $\pm 1.5$	C $\pm 1.5$	H $\pm 1.5$	P $\pm 1.5$	d $\pm 0.05$			
05B	5W	0R01~2R7	18.0	14.0	8.5	4~18	10	0.75	150V	150V	1000V

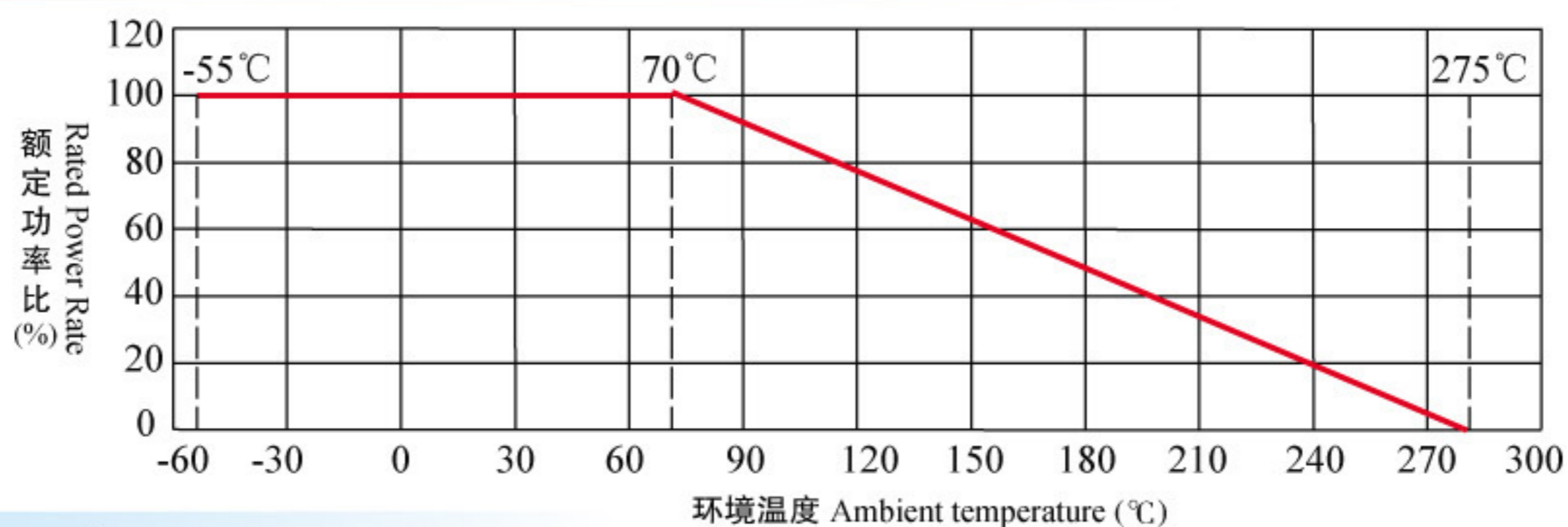


● EC型弯脚尺寸 EC Bend Forming Type Dimensions:



料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions(mm)						最大工作电压 Max. working voltage	最大负荷电压 Max. overload voltage	最高绝缘电压 Max. insulation voltage
			A±1.5	B±1.5	C±1.5	H±1.5	P±1.5	d±0.05			
05B	5W	0R01~2R7	18.0	14.0	8.5	13.0	10	0.75	150V	150V	1000V

● 额定功率递减图 Rated Power Derating Curve:



● 性能测试 Performance Test:

测试项目 Test Item	测试条件 Test Condition	性能 Performance
温度系数 Temperature coefficient	在常温及常温+100°C时分别测量电阻值并计算每度的阻值变化率。Test the resistance value at normal temperature and normal temperature added 100°C, calculate per °C resistance value change rate.	±350ppm/°C
短时间过负荷 Short time overload	1/4 ~ 4W施加5倍额定功率,5 ~ 10W施加10倍额定功率的电压或最高负荷电压(取较小者)5秒。1/4~4W: According 5 times rated power to account the voltage, 5~10W: According 10 times rated power to account the voltage or max. overload voltage (get the lower) for 5 seconds.	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$
耐焊接热 Resistance to soldering heat	在350±10°C的锡炉中浸入2~3秒。Immerse into the 350±10°C tin stove for 2~3 seconds.	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$
可焊性 Solderability	在245±3°C锡炉中浸入2~3秒。Immerse into the 245±3°C tin stove for 2~3 seconds.	焊锡面积覆盖率95%以上 The soldering area is over 95%
温度循环 Temperature cycling	在-55°C时放置30分钟,然后在+25°C时放置10~15分钟,然后再在+275°C时放置30分钟,然后在+25°C时放置10~15分钟,共循环5次。At -55°C for 30 min, then at +25°C for 10~15 min, then at +275°C for 30 min, then at +25°C for 10~15 min, total 5 cycles.	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$
耐湿负荷寿命 Load life in humidity	在温度为40±2°C,相对湿度为90~95%的恒温恒湿箱中,施加额定电压或最大工作电压(取较小者)共1000小时(通1.5小时,断0.5小时)。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 40±2°C and 90~95% relative humidity.	$\Delta R \leq \pm (5\%R_0 + 0.05\Omega)$
耐温负荷寿命 Load life in heat	在70±2°C恒温恒湿箱中施加额定电压或最大工作电压(取较小者)1000小时(通1.5小时,断0.5小时)。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 70±2°C.	$\Delta R \leq \pm (5\%R_0 + 0.05\Omega)$
不燃性 Nonflammability	分别按5、10、16倍额定功率加交流负荷5分钟。Respectively load AC voltage by 5, 10, 16 times rated power for 5 minutes.	不可有明显火焰 No visible flame

● 料号规则 Part No. Regulation:

MPR	05B	J	0	E001	0R100
产品名称 Product Name	功率 Power	精度 Tol.	特殊码 Special Code	成型 Forming	阻值 Ohm
金属片无感水泥电阻器 Metal Plate Noninductive Cement Resistors	02B=2W      03B=3W 05B=5W      07B=7W 10B=10W 2B2=2W+2W    3B3=3W+3W 5B5=5W+5W    7B7=7W+7W	J=±5% K=±10%		E001=E7 E002=E13-4 E003=EC	0R100=0.1Ω 0R220=0.22Ω 1R000=1Ω 4R700=4.7Ω