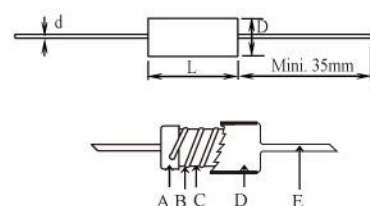




●特点 Features:

- 1、耐热性好、温度系数小、噪声低、负荷功率大、阻值低。Good heat-durability, low temperature coefficient, low noise, high load power, low resistance value.
- 2、使用环境温度 Operating ambient temperature: -55℃~+175℃.
- 3、模压绝缘层, 防潮性能好。Insulated by mould pressing, good performance in enduring moisture.
- 4、阻值误差 Resistance tolerance: ±0.1%、±0.25%、±0.5%、±1%、±2%、±5%.

●产品结构图 Structural Drawing:



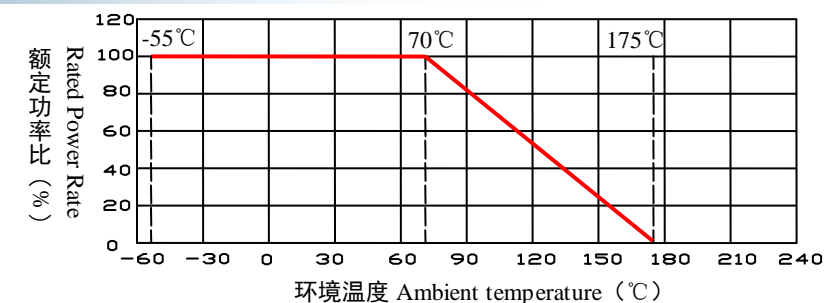
- A、铁帽 Iron Cap.
- B、镍铬或康铜合金丝 Nickel Chrome or nickel an copper alloy.
- C、陶瓷基体 Ceramic core.
- D、模压保护层 Mould pressing protect layer.
- E、镀锡铜线 Tinned copper lead wire.

●规格尺寸及耐压性能 Dimensions and Voltage Performance:

料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions			最大使用电压 Max. working voltage	最大负荷电压 Max. overload voltage	最高绝缘电压 Max. insulation voltage
			L±1	D±0.5	d±0.05			
LVR12S	1/2WS	0R002~1K	5.2	3.0	0.8	150V	400V	500V
LVR012	1/2W	0R01~100R	7.0	3.0	0.8	150V	400V	500V
LVR01S	1WS	0R002~1K	5.5	3.0	0.8	150V	400V	500V
LVR01B	1W	0R002~1K	11.0	3.0	0.8	150V	400V	500V
LVR02B	2W	0R002~1K	11.0	3.0	0.8	150V	400V	500V
LVR03B	3W	0R002~10K	15.0	5.2	0.8	350V	600V	500V
LVR04B	4W	0R005~15K	18.0	6.5	0.8	350V	600V	500V
LVR05B	5W	0R005~2K	24.0	8.4	1.0	350V	600V	500V
LVR10B	10W	0R01~39K	46.5	10.0	1.0	750V	800V	1000V

备注: a、额定电压 =  $\sqrt{\text{功率} \times \text{阻值}}$ ;  
 b、当计算得出的额定电压大于元件极限电压, 使用时取二者较小值。  
 Note: a、Rated voltage  $V = \sqrt{\text{Power} \times \text{Resistance Value}}$ ;  
 b、If the calculated rated voltage is higher than the max. working voltage, it will be got the lower value.

●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℃时分别测量电阻并计算每度的阻值变化率。Test the resistance value at normal temperature and normal temperature added 100℃, calculate per °C resistance value change rate.	±20ppm/°C ~ ±15ppm/°C
短时间过负荷 Short time overload	1/2~4W 施加 5 倍额定功率的电压 ( $\sqrt{5PR}$ ), 5~10W 施加 10 倍额定功率的电压 ( $\sqrt{10PR}$ ) 或最高负荷电压 (取较小者) 5 秒。1/2~4W: According 5 times rated power to account the voltage ( $\sqrt{5PR}$ ), 5~10W: According 10 times rated power to account the voltage ( $\sqrt{10PR}$ ) or Max. overload voltage (get the lower) for 5 seconds.	$\Delta R \leq \pm 1\% R_0$
断续过负荷 Pulse overload	4 倍额定电压或最高断续负荷电压 (取较小者) 测试 1 秒, 停止 25 秒, 循环 10000±200 次。At 4 × rated voltage or Max. pulse overload voltage (get the lower) cycle 10000±200 times (1 second on, 25 seconds off).	$\Delta R \leq \pm 1\% R_0$
耐焊接热 Resistance to soldering heat	在 350±10℃ 锡炉中浸入 2~3 秒。Immerge into 350±10℃ tin stove for 2~3 seconds.	$\Delta R \leq \pm (1\% R_0 + 0.05\Omega)$
可焊性 Solderability	在 260±5℃ 锡炉中浸入 2~3 秒。Immerge into 260±5℃ tin stove for 2~3 seconds.	焊锡面积覆盖 95% 以上 The area of soldering is over 95%
温度循环 Temperature cycling	在 -55℃ 时放置 30 分钟, 然后在 +25℃ 时放置 10~15 分钟, 然后再在 +125℃ 时放置 30 分钟, 然后在 +25℃ 时放置 10~15 分钟, 共循环 5 次。At -55℃ for 30 min, then at +25℃ for 10~15 min, then at +125℃ for 30 min, then at +25℃ for 10~15 min, total 5 cycles.	$\Delta R \leq \pm 1\% R_0$
耐湿负荷寿命 Load life in humidity	在温度为 40±2℃, 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℃ and 90~95% relative humidity.	$\Delta R \leq \pm 1\% R_0$
耐高温负荷寿命 Load life in heat	在 70±2℃ 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℃.	$\Delta R \leq \pm 1\% R_0$
难燃性 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.	不可以有明显火焰 No visible flame

●料号规则 Part No.Regulation:

LVR	01B	J	0	B001	0R010
产品种类 Product Name	功率 Power	精度 Tol.	特殊码 Special Code	成型 Forming	阻值 Ohm
低阻合金绕线固定电阻器 Low value Alloy Wirewound Resistors	012=1/2W 12S=1/2WS 01B=1W 01S=1WS 03B=3W 04B=4W 10B=10W	B = ±0.1% C = ±0.25% D = ±0.5% F = ±1% G = ±2% J = ±5%		B001=B	0R100=0.1Ω 0R220=0.22Ω 10R00=10Ω 100R0=100Ω 10K00=10KΩ
LVR=New Part Name BRV=Old Part Name					