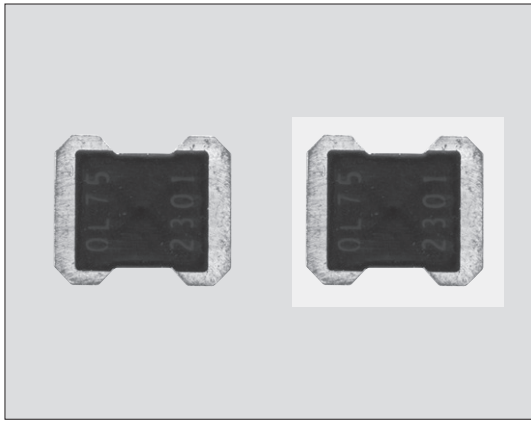


CURRENT SENSING (FOR HIGH POWER)



PSB 片式功率分流电阻器 Chip Type Power Shunt Resistors



外观颜色: 黑色 Coating color: Black

特点 Features

- 电流平稳, 适合于大电流检测。
- 独特端子结构, 易于吸收热膨胀。
- 低背型, 厚度为0.65mm, 适合用薄的组件。
- 无感应类型。
- 可用自动安装机。
- 适合回流焊接。
- 对应欧盟RoHS。
- Smooth current flow, suitable for large current detecting.
- Easy to absorb the thermal expansion, because of KOA's original terminal structure.
- Low height with a thickness of 0.65mm, suitable for use of thin modules.
- Non inductive type.
- Automatic mounting machines are applicable.
- Suitable for reflow soldering. (Not suitable for flow soldering.)
- Products meet EU-RoHS requirements.

用途 Applications

- 用于汽车、转换器电源等等组件的电流检出。
- Current sensing for module of Automobiles, Inverter power supplies etc.

参考标准 Reference Standards

IEC 60115-1
JIS C 5201-1

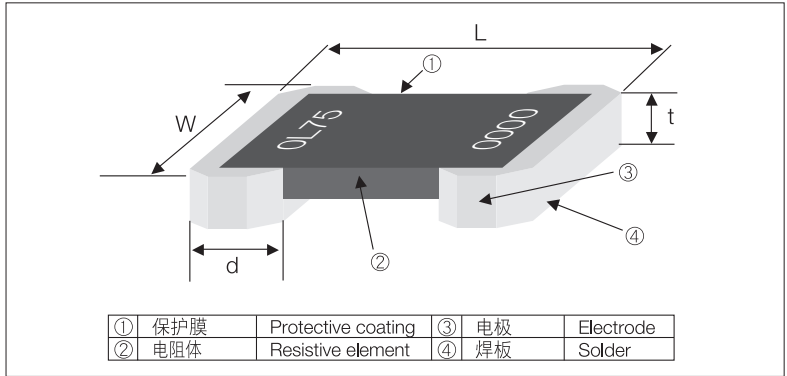
额定值 Ratings

型号 Type	额定功率 Power Rating	电阻温度系数 T.C.R. ($\times 10^{-6}/K$)	电阻值范围 Resistance Range (Ω)	阻值允许偏差 Resistance Tolerance	额定载荷时端子部温度 Terminal Temp. Under a Rated Load	使用温度范围 Operating Temp. Range	编带和包装数/卷 Taping & Q'ty /Reel (pcs)
PSB	6W [*]	± 75	0.75m, 1m	F: $\pm 1\%$	+105°C and less	-65°C ~ +155°C	TEB 4,000

※ 由于额定功率是以本公司的评价标准 (使用铝板) 做出保证的, 所以请您在订货或使用前咨询。

※ A power rating shall be guaranteed with a method show in the item. (: Performance) Please inquire before you order and/or use.

结构图 Construction



外形尺寸 Dimensions

型号 Type (Inch Size Code)	电阻值 (Ω) Resistance	尺寸 Dimensions (mm)				Weight (g) (1000pcs)
		$L \pm 0.25$	$W \pm 0.25$	$d \pm 0.25$	$t \pm 0.25$	
PSB	0.75m	10.0	8.4	3.5	0.65	380
	1.0m			3.0		360

品名构成 Type Designation

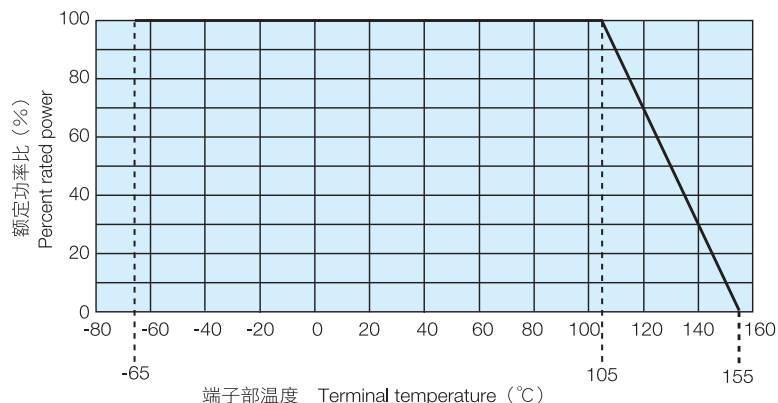
实例 Example	品种 Product Code	额定功率 Style & Power Rating	端子表面材质 Terminal Surface Material	二次加工 Taping	公称电阻值 Nominal Resistance	阻值允许偏差 Resistance Tolerance
PS B T TEB 1L00 F	PS	B: 6W	T: Sn	TEB: Plastic embossed BK: Bulk	F: 4 digits Ex. L750: 0.75m Ω 1L00: 1m Ω	F: $\pm 1\%$

预知关于此产品含有的环境负荷物质详情 (除EU-RoHS以外), 请与我们联系。
编带细节请参考卷末附录C。

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.

For further information on taping, please refer to APPENDIX C on the back pages.

■ 负荷特性曲线 Derating Curve



在环境温度105℃以上使用时，应按照上图负荷特性曲线，减小额定功率。

For resistors operated at terminal temperature of 105℃ or above, a power rating shall be derated in accordance with the above derating curve.

■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements $\Delta R \pm \%$		试验方法 Test Methods
	保证值 Limit	代表值 Typical	
过载 (短时间) Overload (Short time)	0.5	0.1	额定功率×2.5倍施加5秒钟 (使用我们指定的铝质线路板和散热器) Rated Power×2.5 for 5s (Use our designated aluminum circuit board & heat sink)
耐焊接热 Resistance to soldering heat	0.5	0.2	260℃±5℃, 10s±1s
温度突变 Rapid change of temperature	0.5	0.1	-40℃ (30min.) / +125℃ (30min.) 1,000 cycles 使用我们指定的铝质线路板 Use our designated aluminum circuit board
耐湿负荷 Moisture resistance	0.5	0.1	85℃±2℃, 85%RH, 1,000h, 10%Bias
在端子温度105℃以下时耐久性 Endurance at 105℃ and less of terminal temperature	1	0.1	端子温度 Terminal temp.: 105℃±2℃, 1,000h, 1.5h ON / 0.5h OFF 周期 cycle 使用我们指定的铝质线路板 Use our designated aluminum circuit board
低温放置 Low temperature exposure	0.5	0.1	-65℃, 96h 使用我们指定的铝质线路板 Use our designated aluminum circuit board
高温放置 High temperature exposure	1	0.1	+155℃, 1,000h 使用我们指定的铝质线路板 Use our designated aluminum circuit board

■ 使用注意事项 Precautions for Use

- 在用低欧姆值电阻作为分流电阻时，请设计某种式样，考虑周围电感器的电磁影响。
- 对于PSB的电阻值，焊锡后的阻抗值会随焊接点式样的大小或焊锡数量而改变。设计以前确定电阻值的增加/下降结果。
- In case of using the low ohm resistors as shunt resistors, please lay out a pattern considering the electromagnetic induction with surrounding inductors.
- For resistance values of PSB the resistance value after soldering may change depending on the size of pad pattern or solder amount. Make sure the effect of decline/increase of resistance value before designing.