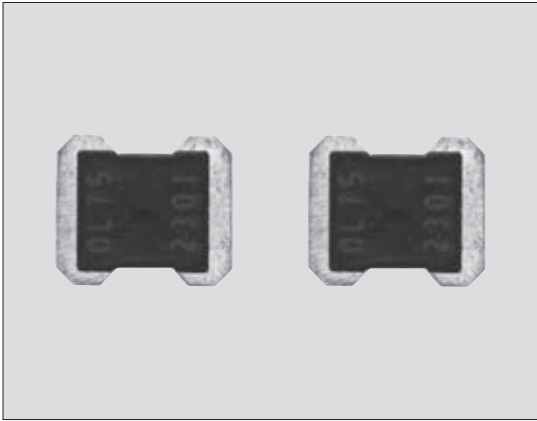


CURRENT SENSING (FOR HIGH POWER)



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。
- 产品为低背型, 对应薄型组件。
- 可用自动安装机。
- 适合回流焊接。
- 符合欧盟RoHS。
- AEC-Q200相关数据已取得。
- Smooth current flow, suitable for large current sensing.
- Easy to absorb the thermal expansion, because of KOA's original terminal structure.
- Low height with a thickness, suitable for use of thin modules.
- Automatic mounting machines are applicable.
- Suitable for reflow soldering. (Not suitable for flow soldering.)
- Products meet EU-RoHS requirements.
- AEC-Q200 qualified.

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

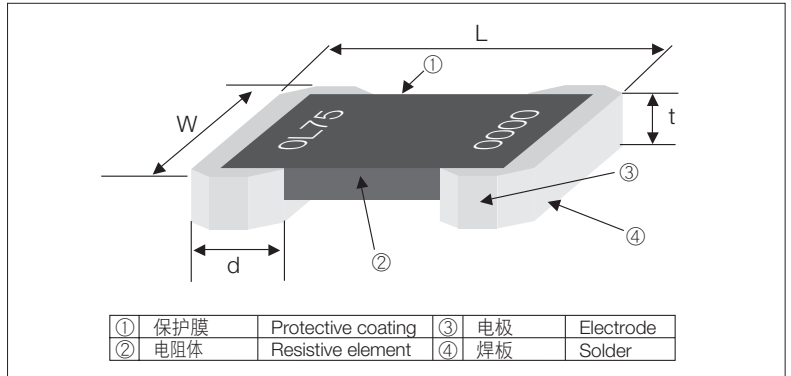
额定值 Ratings

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	额定端子部温度 Rated Terminal Part Temp.	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 $^{\circ}C$	-65 $^{\circ}C \sim +155^{\circ}C$	TEB
	7W*	± 100	0.2m				4,000
							3,000

* 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 (4033)	0.2m	10	8.4	3.8	1.1	655
	0.75m			3.5	0.65	380
	1.0m			3		360

品名构成 Type Designation

实例 Example

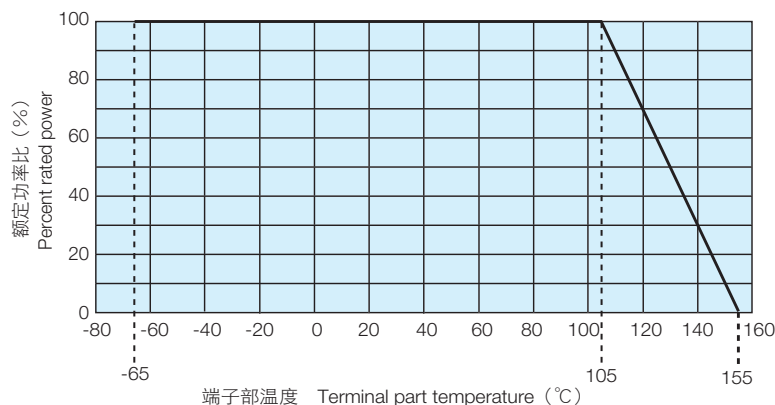
PS	B	T	TEB	1L00	F
品种 Product Code	额定功率 Style & Power Rating	端子表面材质 Terminal Surface Material	二次加工 Taping	公称电阻值 Nominal Resistance	阻值允许偏差 Resistance Tolerance
	形状: B 0.2m: 7W 0.75m, 1.0m: 6W	T: Sn	TEB: Plastic embossed BK: Bulk	F: 4 digits Ex. L750: 0.75m Ω 1L00: 1m Ω	F: $\pm 1\%$

欲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.

■ 负荷减轻特性曲线 Derating Curve



超过上述端子部温度使用时，请根据负荷减轻特性曲线减小额定功率后使用。

※有关使用方法，请参照卷首的“端子部温度负荷减轻特性曲线的说明”。

For resistors operated terminal part temperature of described for each size or above, a power rating shall be derated in accordance with derating curve.

※Please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog before use.

■ 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)	0.2m: 1.0 0.75m, 1.0m: 0.5	0.1	0.2m: 功率35W, 5秒施加 35W for 5s 0.7m, 1.0m: 额定功率×2.5, 5秒施加 Rated Power×2.5 for 5s 使用我们指定的铝质线路板 Use our designated aluminum circuit board & heat sink
耐焊接热 Resistance to soldering heat	0.2m: 1.0 0.75m, 1.0m: 0.5	0.2	260°C ± 5°C, 10s ± 1s
温度突变 Rapid change of temperature	0.2m: 1.0 0.75m, 1.0m: 0.5	0.1	0.2m: -55°C (30min.) / +125°C (30min.) 1,000 cycles 0.75m, 1.0m: -40°C (30min.) / +125°C (30min.) 1,000 cycles 使用我们指定的铝质线路板 Use our designated aluminum circuit board & heat sink
耐湿负荷 Moisture resistance	0.2m: 1.0 0.75m, 1.0m: 0.5	0.1	85°C ± 2°C, 85%RH, 1,000h, 10%Bias
在端子温度105°C以下时耐久性 Endurance at 105°C and less of terminal part temperature	1	0.1	端子温度 Terminal part temp.: 105°C ± 2°C, 1,000h, 1.5h ON / 0.5h OFF cycle 使用我们指定的铝质线路板 Use our designated aluminum circuit board & heat sink
低温放置 Low temperature exposure	0.2m: 1.0 0.75m, 1.0m: 0.5	0.1	-65°C, 96h 使用我们指定的铝质线路板 Use our designated aluminum circuit board & heat sink
高温放置 High temperature exposure	1	0.1	+155°C, 1,000h 使用我们指定的铝质线路板 Use our designated aluminum circuit board & heat sink

■ 使用注意事项 Precautions for Use

- 在用低欧姆值电阻作为分流电阻时，请考虑周围线圈的电磁感应后配置模型。
- 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。设计前请确定电阻值的增加/下降后的影响。
- 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.