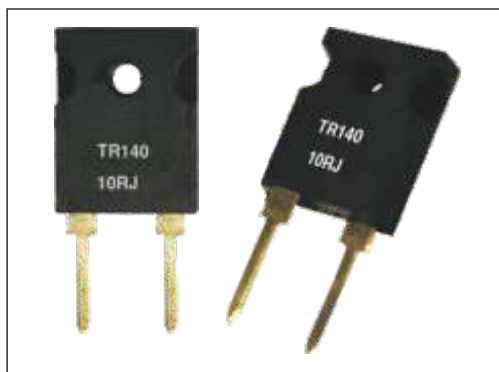


TR140 功率型厚膜电阻



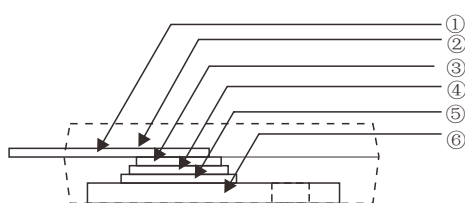
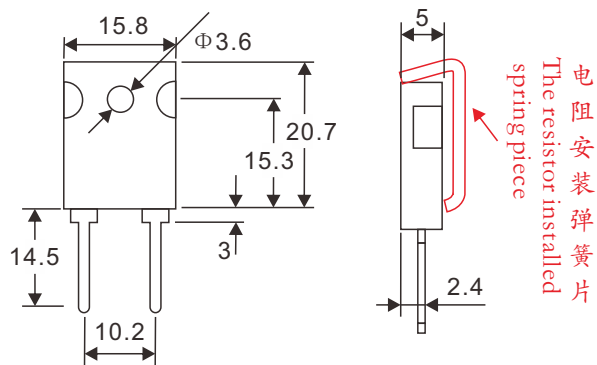
● 特点 Features

- I 采用厚膜, 无感设计, TO-247标注封装
- I Using thick film, Non-inductive, TO-247 Standard package
- II 额定功率:140W(在底板中心温度 $\leq 25^{\circ}\text{C}$ 时)
- II Rating power 140W(the temp of floor center less than 25°C)
- III 电阻范围: 0.5Ω — $2.2\text{K}\Omega$
- III Resistance range :from 0.5Ω to $2.2\text{K}\Omega$
- IV 公差: $\pm 10\%$ 、 $\pm 5\%$
- IV Tolerance: $\pm 10\%$ 、 $\pm 5\%$
- V 工作温度范围: -55°C — 155°C
- V The range of working temperature :- 55°C — 155°C
- VI 温度系数: $\pm 50\text{PPM}/^{\circ}\text{C}$ 、 $\pm 100\text{PPM}/^{\circ}\text{C}$ 、 $\pm 250\text{PPM}/^{\circ}\text{C}$
- VI TCR: $\pm 50\text{PPM}/^{\circ}\text{C}$ 、 $\pm 100\text{PPM}/^{\circ}\text{C}$ 、 $\pm 250\text{PPM}/^{\circ}\text{C}$
- VII 最大工作电压: 700V
- VII The max working voltage :700V
- VIII 绝缘层耐压:2500V
- VIII Withstand voltage in insulating layer:2500V
- IX 绝缘电阻: 最小10000M Ω
- IX Dielectric resistance: Min 10000M Ω

● 应用 Application

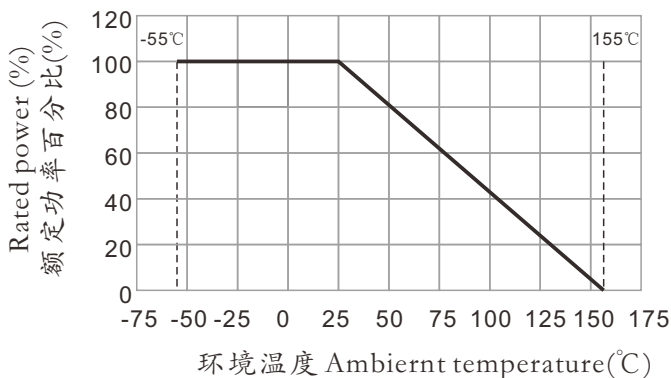
风力发电、电力传输、机器人、变频器、开关电源等领域
 Wind power generation, power transmission, robot, frequency converter, switching power supply and so on.

● 结构尺寸 Dimensions



①	镀锡铜线	Leads, Tin plated Cu
②	环氧树脂, UL94-V0	Mold, epoxy, UL94-V0
③	铜导体	Conductor, Cu
④	电阻, NiCr 或 RuO	Resistor, NiCr or RuO
⑤	氧化铝陶瓷基板	Substrate, Alumina
⑥	法兰	Flange, Ni plated Cu

● 降功耗曲线 Derating cure



● 性能 Performance

试验项目 Test item	规格值 Performance requirements	测试方法 Test methods (JIS C 5201-1)
短时间过载 Short time overload	$\Delta R \leq \pm (0.5\% R_0 + 0.05\Omega)$	1.5倍额定功率, 10S ($U_{\max} \leq U_L = 700\text{V}$) 1.5 times rated power, 10S ($U_{\max} \leq U_L = 700\text{V}$)
温度循环 Temp cycle	$\Delta R \leq \pm (0.5\% R_0 + 0.05\Omega)$	-55°C , 30min/ 125°C , 30min, 5个周期 -55°C , 30min/ 125°C , 30min, 5period
寿命 Load life	$\Delta R \leq \pm (1\% R_0 + 0.05\Omega)$	额定功率1000h, 底板中心温度 $< 25^{\circ}\text{C}$ Rated power 1000h, the temp of floor center $< 25^{\circ}\text{C}$
稳态湿热 Damp heat	$\Delta R \leq \pm (1\% R_0 + 0.05\Omega)$	40°C , RH93 $\pm 3\%$, 56天 40°C , RH93 $\pm 3\%$, 56days

● 料号编号 Ordering information

例 example

TR	140	J	100K0	C
型号Type	功率Power	精度Tolerance	阻值Resistance	温度系数TCR
TR	140=140W	J=±5% K=±10%	0R500=0.5Ω 10R00=10Ω 1K000=1KΩ	C=±50PPM/°C A=±100PPM/°C H=±250PPM/°C