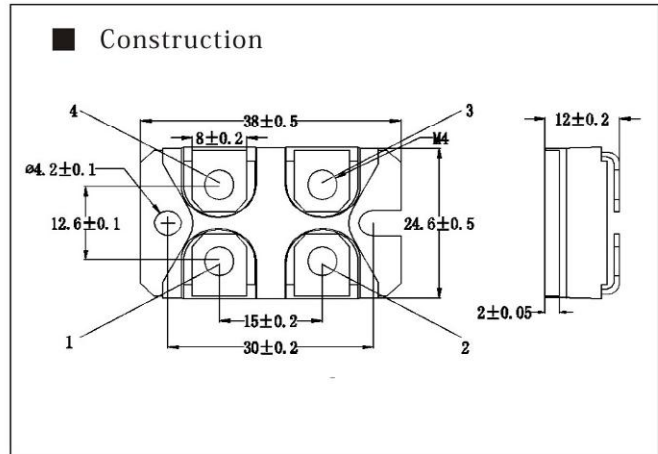


# RTP200 power thick film resistors



## Characteristics

- 0.5% Tolerance available
- High power rating
- Non inductive
- Wide ohmic value range
- Easy mounting
- 3 Different resistors in 1 module available
- 4 Terminals available
- SOT-227 standrd package

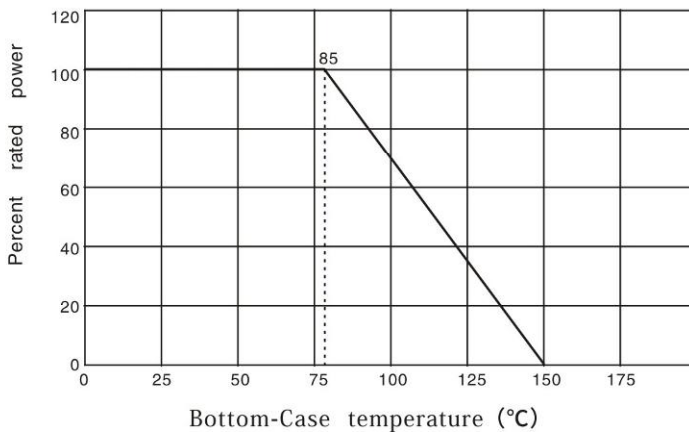
## Technical Standard

GB/T5729-2003 Fixed Resistors for Electronic Equipment  
Part I: General Specification

## Application Area

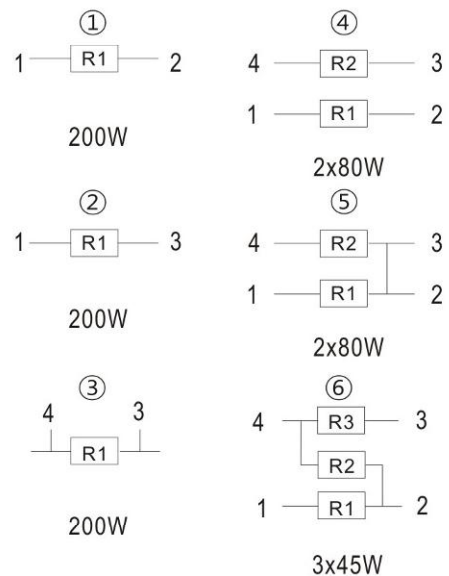
Automotive electrician, capacitor equalization, energy absorption, power load, high frequency RC absorption, induction heating and other power electronics industry.

## Derating Curve



Description: when the temperature  $\leq 85^\circ\text{C}$ , can be used at full power, when the temperature  $> 85^\circ\text{C}$ , as shown in the curve, the power can be achieved gradually become smaller, when the temperature is  $150^\circ\text{C}$ , the power is 0. In order to improve thermal conductivity, the resistor and heat sink surface should be coated with thermally conductive silicone grease, the use of M4 screws on the substrate with a maximum torque of 1.5 Nm, the use of M4 screws on the end of the lead with a maximum torque of 1.3 Nm.

## Electrical Diagram



# RTP200

power thick film resistors



## ■ Performance Characteristics

TYPE	RTP200
Resistance value range	0.1Ω - 1MΩ
Tolerance	±0.5%; ±1%; ±5%
TCR	±50ppm/°C; ±100ppm/°C; ±250ppm/°C;
Max. working voltage	500V
Dielectric Strength	4000VDC
Temperature range	-55°C ~ 150°C
Weight	30g Max

- Special specifications can be supplied in consultation with customers.
- The condition of the above power is needed to mount a heatsink if they has no heatsinks,the power only be 5W

## ■ Technical Data-General

TEST ITEM	SPECIFICATIONS	TEST METHOD GB/T5729-2003 IEC60115-1 : 2001
Short time overload	1.5 times rated power 10s $\Delta R \leq \pm (0.25\%R + 0.05\Omega)$	4.13
Rapid temperature change	$\Delta R \leq \pm (0.25\%R + 0.05\Omega)$	4.19
Temperature cycling	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	4.23
Humidity (steady States)	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	4.24
Load life	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	4.25.2