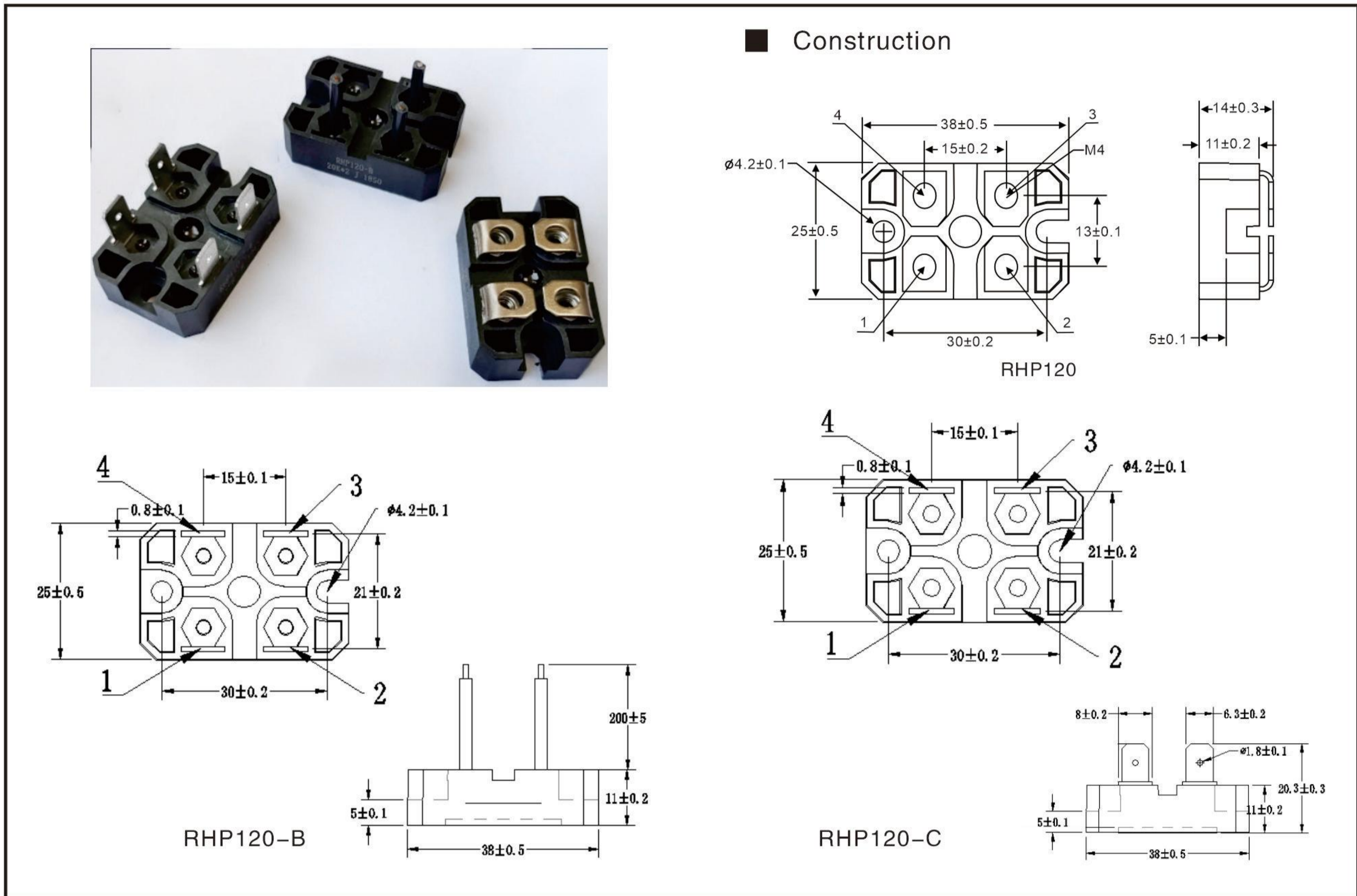


POWER THICK FILM RESISTORS

SERIES RHP120



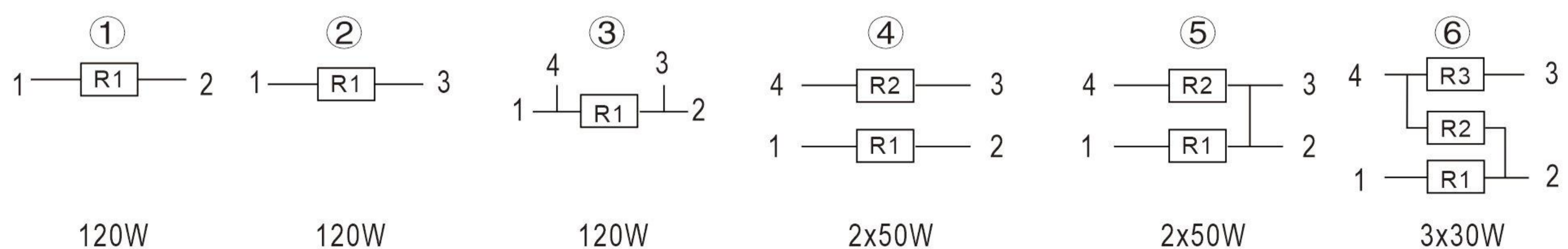
Characteristics

- 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 use in electronic equipment
Part I: General Specification

Electrical Diagramme



Application Area

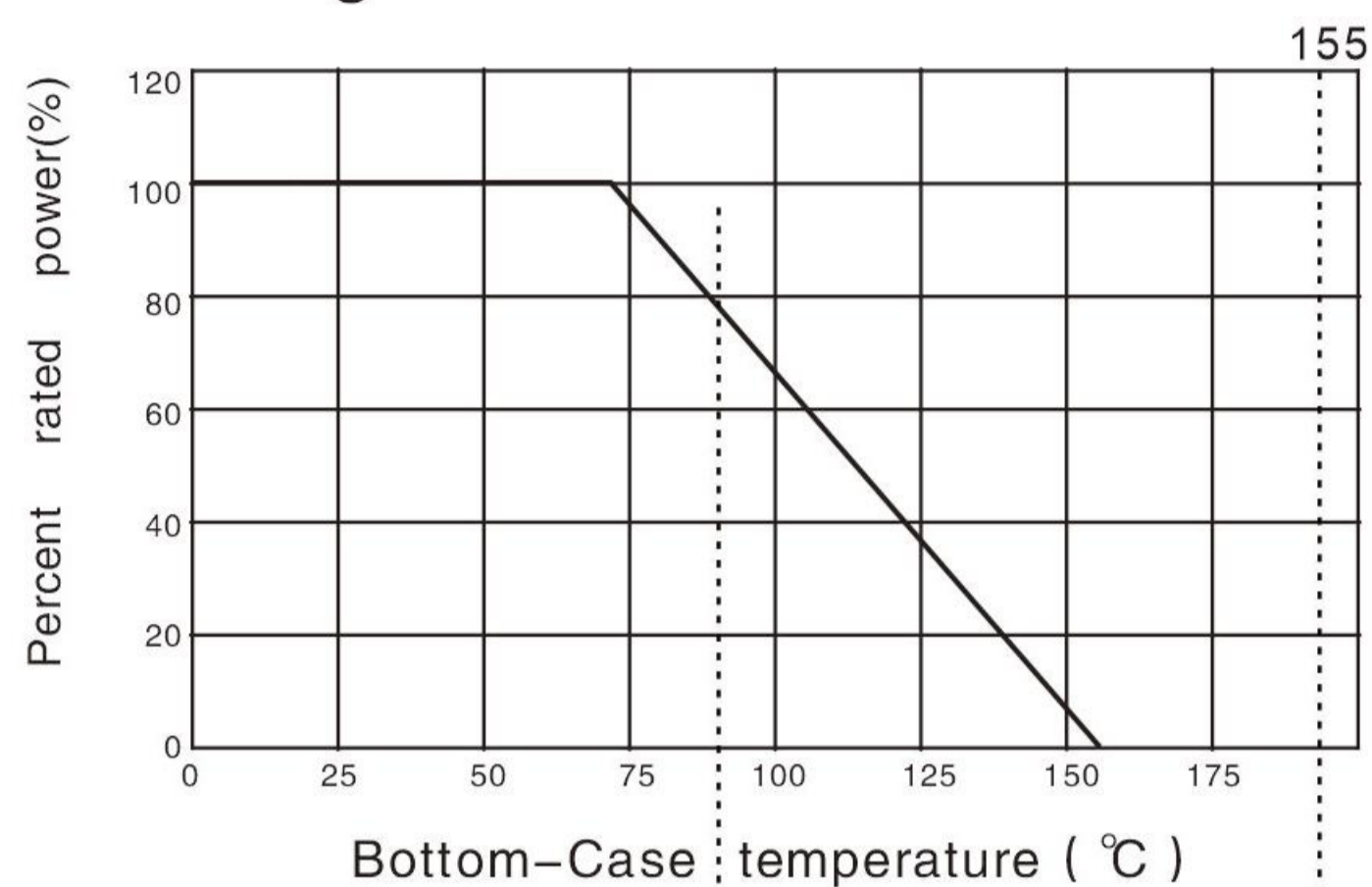
Power electronics, automotive electricians, medical equipment, power transmission, wind power, photovoltaic power generation and other new energy sources.

POWER THICK FILM RESISTORS

SERIES RHP120



Derating Curve



说明：当温度 $\leq 70^{\circ}\text{C}$ 时,可以满功率使用,当温度 $>70^{\circ}\text{C}$ 时,如曲线图所示,可以达到的功率逐渐变小,当温度在 155°C 时,功率为0。为提高导热率,电阻与散热器表面应涂抹导热硅脂,基板使用M4螺丝最大扭矩1.3Nm,引出端使用M4螺丝最大扭矩1Nm。

Performance Characteristics

TYPE	RHP120/B/C		
Resistance value range	0.1 Ω - 1 Ω	1 Ω - 10 Ω	10 Ω - 1M Ω
Tolerance	$\pm 5\%$; $\pm 10\%$	$\pm 5\%$; $\pm 10\%$	$\pm 1\%$; $\pm 5\%$
TCR	$\pm 500\text{ppm}/^{\circ}\text{C}$	$\pm 250\text{ppm}/^{\circ}\text{C}$	$\pm 500\text{ppm}/^{\circ}\text{C}$; $\pm 100\text{ppm}/^{\circ}\text{C}$
Max. working voltage	500V		
Dielectric Strength	5000VDC		
Weight	$-55^{\circ}\text{C} \sim 150^{\circ}\text{C}$		
	17.6g \pm 2g		

- 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 3.5W.

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