

Department: Technology Department Version number: A0

File No: YZPST-0.SB.008-01a

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Specifications

Product name: Power Thick Film Resistors

Type: RPVH120

Version: _____A/0___

Date: _____2022.09

	Fiction	Approve
Sign		
Date	2022.09.27	2022.09.27



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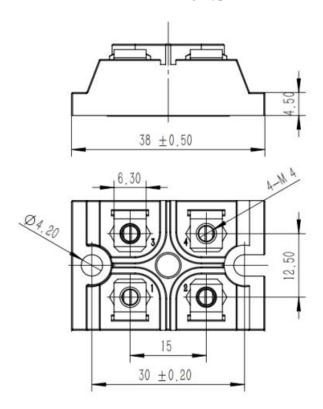


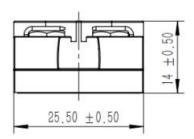
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■ Scope:

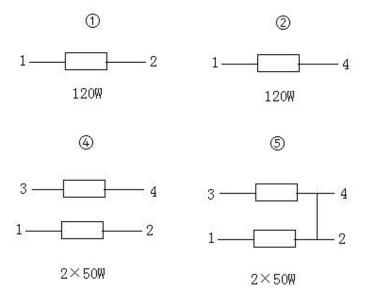
This specification specifies the general characteristics and requirements for RPVH 120 power type thick film resistors.

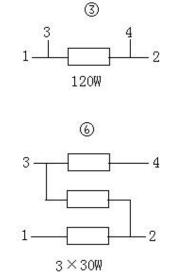
■ Dimensions: Size name:mm Package type: SOT-227





■ Resistor structure:





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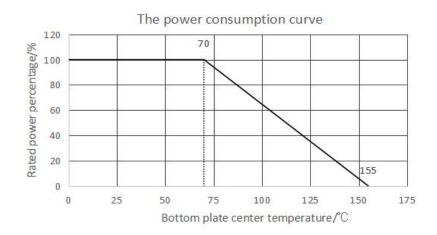
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■ Reference Standard:

GB/T 5729-2003 Fixed Resistors for Electronic Equipment Part 1: General Specification
GB/T 2828.1-2012 Batch-by-batch inspection technical sampling procedure and sampling table
GB/T 2691-2016 Marking method of resistors and capacitors



■ The main technical parameters:

Rated power	When the base plate temperature is $\leq 70^{\circ}$ C, the rated power is 120W	
Resistance / \O	11M	
Allowable deviation	$\pm 5\%$	
Temperature Coefficient	±250ppm/°C(25-85°C)	
Maximum working voltage	1500V DC	
Insulation withstand voltage	5KV DC 1min	
Distributed capacitance	<45pF	
Insulation resistance	>10G Ω	
Range of working temperature	-55°C-+155°C	

■ Main inspection items, inspection methods and performance requirements:

project	Test conditions	Performance requirement
Terminal strength	Soft lead pull: 10N, stud type 1.0N.m torque	Δ R \leq \pm (1%R+0.05 Ω)
high frequency vibration	Frequency 10~500Hz, 10g, 6h	Δ R \leq \pm (1%R+0.05 Ω)
overload	Apply 1.5 times the rated power voltage for 10s	ΔR≤± (0.4%R+0.1Ω)
Room temperature durability	The rated power load is 1000 h, and the bottom plate temperature is less than 70 $^{\circ}$ C	$\Delta R \leqslant \pm (5\%R+0.05\Omega)$



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■ Radiator installation method and requirements

The resistor is installed on the radiator with 2 M4 screws, and the installation torque is less than or equal to 1.3N.m (to ensure the use of power and excellent heat dissipation);

The contact surface must be cleaned;

The flatness of the radiator is: 0.05mm-0.1mm (within the range of 100mm);

The roughness of the radiator must be 6.3 µm;

To improve thermal conductivity, contact surfaces (alumina, heat sinks) should be coated with silicone grease.

Order example

