Vishay Sfernice





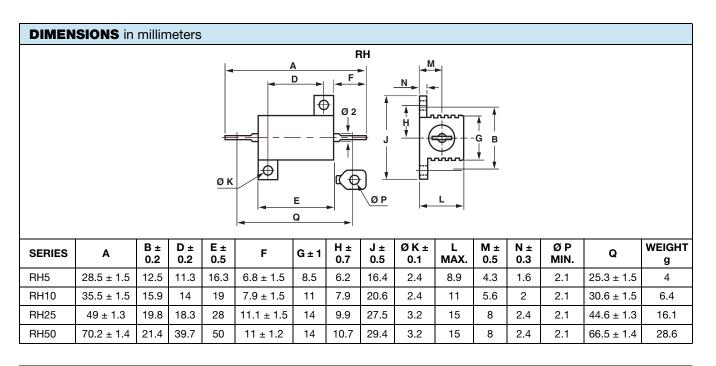
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FEATURES

- 5 W to 50 W at 25 °C
- NF C 83-210
- According to CECC 40 203
- High stability < 0.05 % year
- Low temperature coefficient typically ± 15 ppm/°C
- Wide range of values from 0.006 Ω to 130 k Ω
- Termination = Sn/Ag/Cu
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Encased in a compact and light heatsink offering complete environmental protection, great mechanical strength and easy mounting. Non inductive versions can be supplied under the RHNI designation (please indicate required specifications and frequency range upon ordering).

NF F 16101, 10/1988 and 16102, 04/1992: Not applicable (our parts contain less than 10 g of combustible materials).



OHMIC RANGE IN RELATION TO TOLERANCE						
		RH5	RH10	RH25	RH50	
10 %	E24	0.01 Ω to 12 k Ω	0.006 Ω to 20 k Ω	0.006 Ω to 62 k Ω	0.006 Ω to 130 k Ω	
5 %	E24	0.01 Ω to 12 k Ω	0.01 Ω to 20 k Ω	0.01 Ω to 62 k Ω	0.01 Ω to 130 k Ω	
2 %	E48	0.01 Ω to 12 k Ω	0.01 Ω to 20 k Ω	0.01 Ω to 62 k Ω	0.01 Ω to 130 k Ω	
1 %	E96	0.1 Ω to 12 k Ω	0.1 Ω to 20 k Ω	0.05 Ω to 62 k Ω	0.05 Ω to 130 k Ω	
0.5 %	E96	0.1 Ω to 12 k Ω	0.1 Ω to 20 k Ω	0.1 Ω to 62 k Ω	0.1 Ω to 130 k Ω	

1 For technical questions, contact: sferfixedresistors@vishay.com COMPLIANT

RH

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TECHNICAL SPECIFICA	TIONS					
VISHAY SFERNICE MODEL AND STYLE			RH5	RH10	RH25	RH50
POWER RATING	MIL	25 °C	5W	10 W	20 W	30 W
Chassis Mounted Resistors	Limits	70 °C	4 W	8 W	16 W	24 W
413 cm ² for RH5 and RH10	Vishay Sfernice	25 °C	10 W	12.5 W	25 W	50 W
536 cm ² for RH25 and RH50	Limits	70 °C	8 W	10 W	20 W	40 W
Unmounted Resistors	Vishay Sfernice Limits	25 °C	4 W	6 W	9W	12 W
Unmounted Resistors		70 °C	3.2 W	4.8 W	7.2 W	9.6 W
Rated Maximum Voltage (V _{RMS})			160 V	250 V	550 V	1285 V
Dielectric Strength V _{RMS}			1000 V	1500 V	2500 V	2500 V
	Vishay Sfernice		0.01 Ω 12 kΩ	0.006 Ω 20 kΩ	0.006 Ω 62 kΩ	0.006 Ω 130 kΩ
	E 96	± 0.1 %	1Ω		1 Ω	
	E 96	± 0.5 %	0.1 Ω		0.1 Ω	
Minimum Ohmic Values	E 96	±1%	0.1 Ω		0.05 Ω	
in Relation to Tolerance	E 48	±2%	0.01 Ω		0.01 Ω	
	E 24	±5%	±5% 0.01Ω		0.01 Ω	
	E 12	± 10 %	0.01 Ω	0.008 Ω	0.0	06 Ω

PERFORMANCE							
MI	TYPICAL DRIFTS						
TESTS		CONDITIONS		REQUIREMENTS			
Operating Temperature Range	-	-55 °C +200 °C		-	-		
Momentary Overload		5 P _r /5 s		± (0.25 % + 0.05 Ω)	± (0.1 % + 0.05 Ω)		
Climatic Sequence	Sequence -55 °C +200 °C 5 cycles				± (0.1 % + 0.05 Ω)		
Load Life Test at High Temperature	2	2 h at +275 °C		\pm (1 % + 0.05 Ω) Ins. resistance \ge 1 GΩ	± (0.1 % + 0.05 Ω)		
Humidity (Steady State)		56 days		\pm (1 % + 0.05) Ins. resistance \geq 100 M Ω	± (0.5 % + 0.05 Ω)		
Resistance to Moisture		Climatic sequences test, with load and polarisation		± (1 % + 0.05 Ω)	± (0.5 % + 0.05 Ω)		
Temperature Coefficient		5 Ω to 10 Ω > 10 Ω		± 50 ppm/°C ± 25 ppm/°C	± 15 ppm/°C		
Load Life	1000 h 25 °C	<i>P</i> _n MIL	Vishay	± (1 % + 0.05 Ω)	± (0.1 % + 0.05 Ω)		
at Maximum Temperature	200 °C	30 % of <i>P</i> _n	Sfernice	Ins. resistance \geq 1 G Ω	± (0.5 % + 0.05 Ω)		

MOMENTARY OVERLOAD

1. Momentary overload (> 2 s):

- See example in table below. In all cases, it should be understood that:
- The 12 P_n overload applies only to ohmic values 0.1.
- The overload voltage shall not be higher than that used for the dielectric strength test (see Standard Electrical Specifications).

2. Short time overload (< 2 s):

For times shorter than 2 s, higher overloads can be sustained in some cases. Consult Vishay Sfernice.

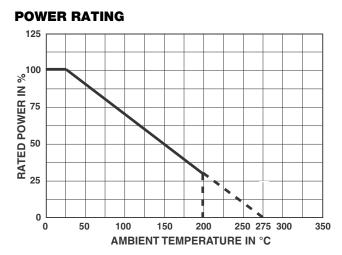
POWER LOADING	DURATION
2.5 P _n	10 s
5 P _n	5 s
12 P _n	2 s

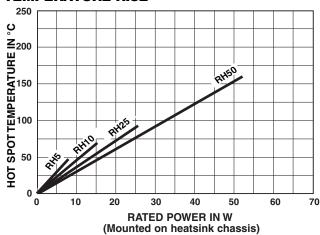
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TEMPERATURE RISE



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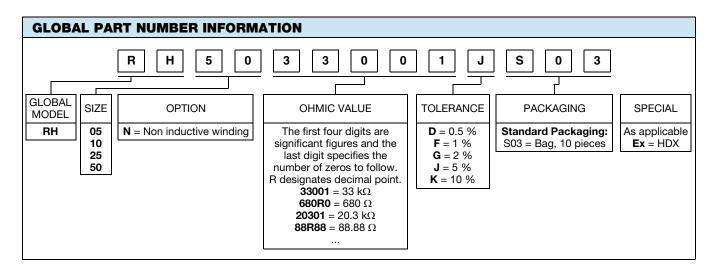


MARKING

Vishay Sfernice trademark, model, style, nominal resistance (in Ω), tolerance (in %), manufacturing date.

PACKAGING	
Bag of 10 units	

ORDERING INFORMATION							
RH	05	Ν	18R00	J	S03		
MODEL	STYLE	NON INDUCTIVE WINDING Optional	OHMIC VALUE	TOLERANCE	PACKAGING		





3



Vishay

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