COMPLIANT





Heatsink Encased Wirewound Power Resistors



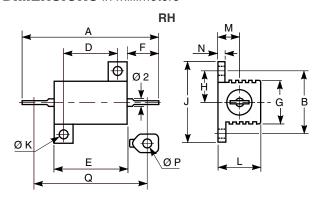
FEATURES

- 5 W to 50 W at 25 °C
- NF C 83-210
- 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
- Compliant to RoHS directive 2002/95/EC

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).

DIMENSIONS in millimeters



MODEL AND STYLE	RH5	RH10	RH25	RH50
A	28.5 ± 1.5	35 ± 1.5	49 ± 1.3	70.2 ± 1.4
B ± 0.2	12.5	15.9	19.8	21.4
D ± 0.2	11.3	14	18.3	39.7
E ± 0.5	16.3	19	28	50
F	6.8 ± 1.5	7.9 ± 1.5	11.1 ± 1.5	11 ± 1.2
G ± 1	8.5	11	14	15.5
H ± 0.7	6.2	7.9	9.9	10.7
J ± 0.5	16.4	20.6	27.5	29.4
Ø K ± 0.1	2.4	2.4	3.2	3.2
L max.	8.9	11	15	15
M ± 0.5	4.3	5.6	8	8
N ± 0.3	1.6	2	2.4	2.4
Ø P min.	2.1	2.1	2.1	2.1
Q	25.3 ± 1.5	30.6 ± 1.5	44.6 ± 1.3	66.5 ± 1.4
Weight in g	4	6.4	16.1	28.6

EL	ELECTRICAL SPECIFICATIONS						
VIS	HAY SFERNICE MODEL AND ST	ΓYLE		RH5 ⋹	RH10 =	RH25 🗲	RH50 ⋹
NF	C 83-210 (CECC 40 203)			RE4	RE1	RE2	RE3
	Chassis Mounted Resistors	MIL Limits	25 °C	5 W	10 W	20 W	30 W
ting	Chassis Wounted nesistors		70 °C	4 W	8 W	16 W	24 W
Bating 413	413 cm ² for RH5 and RH10	VISHAY SFERNICE Limits	25 °C	10 W	12.5 W	25 W	50 W
Power	536 cm ² for RH25 and RH50		70 °C	8 W	10 W	20 W	40 W
Po	Unmounted Resistors	VISHAY SFERNICE Limits	25 °C	4 W	6 W	9W	12 W
_			70 °C	3.2 W	4.8 W	7.2 W	9.6 W
Rate	Rated Maximum Voltage (VRMS)		160 V	250 V	550 V	1285 V	
Diel	ectric Strength VRMS			1000 V	1500 V	2500 V	2500 V
Ohn	Ohmic Range VISHAY SFERNICE		$0.01~\Omega$ 12 k Ω	0.006 Ω 20 kΩ	0.006 Ω 62 kΩ	0.006 Ω 130 kΩ	
Qua	lified Ohmic Range	NF	C 83-210	0.1 Ω 2.7 kΩ	0.1 Ω 4.99 kΩ	0.1 Ω 11.8 kΩ	0.1 Ω 33.2 kΩ
	E 96		± 0.1 %	1 Ω		1 Ω	
Minimum Ohmic Values in Relation to Tolerance		E 96	± 0.5 %	± 0.5 % 0.1 Ω ± 1 % 0.1 Ω		0.1 Ω	
		E 96	± 1 %			0.05 Ω	
		E 48	± 2 %	0.01 Ω		0.01 Ω	
		E 24	± 5 %	± 5 % 0.01 Ω		0.01 Ω	
		E 12	± 10 %	0.01 Ω	0.008 Ω	0.0	06 Ω

Undergoes European Quality Insurance System (CECC)

Document Number: 50013 Revision: 20-May-09

Vishay Sfernice

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PERFORMANCE						
MIL	TYPICAL DRIFTS					
TESTS CONDITI		CONDITIONS		REQUIREMENTS	TIFICAL DRIFTS	
Operating Temperature Range	- 55 °C + 200 °C			-	-	
Momentary Overload		5 Pr/5 s		± (0.25 % + 0.05 Ω)	± (0.1 % + 0.05 Ω)	
Climatic Sequence	- 55 °C + 200 °C 5 cycles		± (0.25 % + 0.05 Ω)	± (0.1 % + 0.05 Ω)		
Load Life Test at High Temperature	2 h at + 275 °C		\pm (1 % + 0.05 Ω) Ins. resistance \geq 1 GΩ	± (0.1 % + 0.05 Ω)		
Humidity (Steady State)	56 days		\pm (1 % + 0.05) Ins. resistance \geq 100 MΩ	$\pm (0.5 \% + 0.05 \Omega)$		
Resistance to Moisture	Climatic sequences test, with load and polarisation		± (1 % + 0.05 Ω)	$\pm (0.5 \% + 0.05 \Omega)$		
Temperature Coefficient		5 to 10 > 10		± 50 ppm/°C ± 25 ppm/°C	± 15 ppm/°C	
Load Life	1000 h 25 °C	Pn MIL	VISHAY	± (1 % + 0.05 Ω)	± (0.1 % + 0.05 Ω)	
at Maximum Temperature 200 °C 30 % of Pr		30 % of Pn	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:

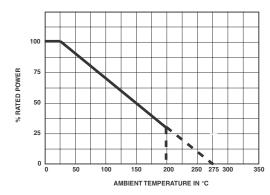
- The 12 Pn overload applies only to ohmic values 0.1.
- The overload voltage shall not be higher than that used for the dielectric strength test (see Standard Electrical Specifications).

2. Short time overload (< 2 s):

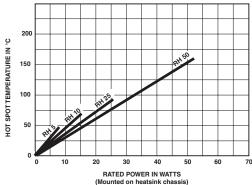
For times shorter than 2 s, higher overloads can be sustained in some cases. Consult VISHAY SFERNICE.

POWER LOADING	DURATION
2.5 Pn	10 s
5 Pn	5 s
12 Pn	2 s

POWER RATING CHART



TEMPERATURE RISE



MARKING

VISHAY SFERNICE trademark, model, style, CECC style (if applicable) nominal resistance (in Ω), tolerance (in %), manufacturing date.

PACKAGING

Bag of 10 units

www.vishay.com 53 For technical questions, contact: sfer@vishav.com

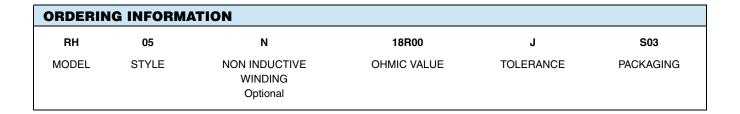
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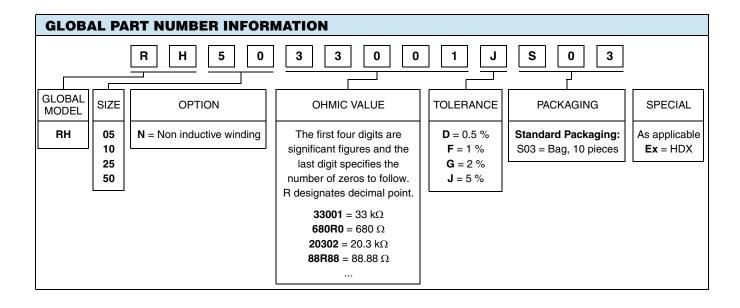




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Document Number: 91000
Revision: 18-Jul-08
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