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Vishay Sfernice RH5022R00FS03

For any questions, you can email us directly: sales@integrated-circuit.com

Datasheet of RH5022R00FS03 - RES CHAS MNT 22 OHM 1% 50W

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www.vishay.com

RH

Vishay Sfernice

Heatsink Encased Wirewound Power Resistors

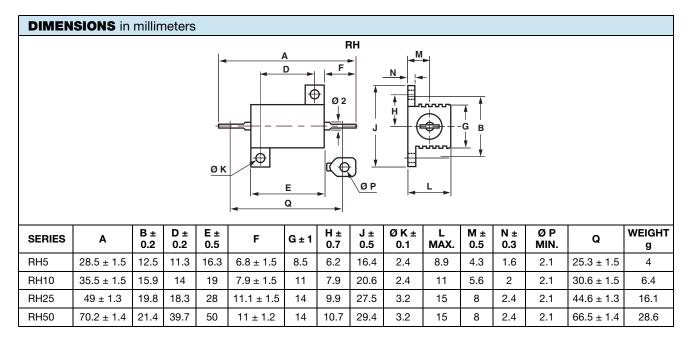


FEATURES

- 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 $k\Omega$
- Termination = Sn/Ag/Cu
- Material categorization: For definitions of compliance please see www.vishav.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).



STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	$\begin{array}{c c} \textbf{RESISTANCE} & \textbf{RATED POW} \\ \textbf{RANGE} & P_{25^{\circ}\text{C}} \\ \Omega & \textbf{W} \end{array}$		TOLERANCE ± %		
RH5	0.01 to12K	10	0.5, 1, 2, 5		
RH10	0.006 to 20K	12.5	0.5, 1, 2, 5		
RH25	0.006 to 62K	25	0.5, 1, 2, 5		
RH50	0.006 to 130K	50	0.5, 1, 2, 5		

Revision: 24-Feb-14 **1** Document Number: 50013

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TECHNICAL SPECIFICATIONS						
VISHAY SFERNICE MODEL AND STYLE			RH5	RH10	RH25	RH50
POWER RATING	MIL Limits	25 °C	5W	10 W	20 W	30 W
Chassis Mounted Resistors		70 °C	4 W	8 W	16 W	24 W
413 cm ² for RH5 and RH10 536 cm ² for RH25 and RH50	Visitay Sterrice	25 °C	10 W	12.5 W	25 W	50 W
		70 °C	8 W	10 W	20 W	40 W
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
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 %	1 Ω		1 Ω	
Minimum Ohmic Values in Relation to Tolerance	E 96	± 0.5 %	0.1 Ω		0.1 Ω	
	E 96	±1%	0.1 Ω		0.05 Ω	
	E 48	± 2 %	0.01 Ω		0.01 Ω	
	E 24	± 5 %	0.01 Ω		0.01 Ω	
	E 12	± 10 %	0.01 Ω 0.008 Ω		0.006 Ω	

PERFORMANCE							
М	TYPICAL DRIFTS						
TESTS	C	CONDITIONS		REQUIREMENTS	I TPICAL DRIFTS		
Operating Temperature Range	- 5	- 55 °C + 200 °C		-	-		
Momentary Overload		5 P _r /5 s		± (0.25 % + 0.05 Ω)	± (0.1 % + 0.05 Ω)		
Climatic Sequence	- 5	55 °C + 200 °C 5 cycles		± (0.25 % + 0.05 Ω)	$\pm (0.1 \% + 0.05 \Omega)$		
Load Life Test at High Temperature	2	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 Ω to 10 Ω > 10 Ω		*		± 50 ppm/°C ± 25 ppm/°C	± 15 ppm/°C
Load Life	1000 h 25 °C	$P_{n}MIL$	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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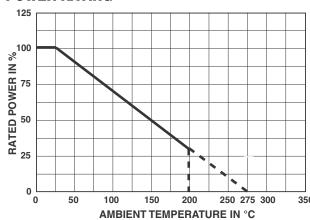


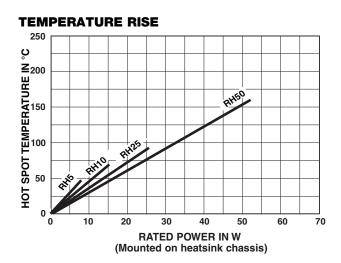
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RH

POWER RATING



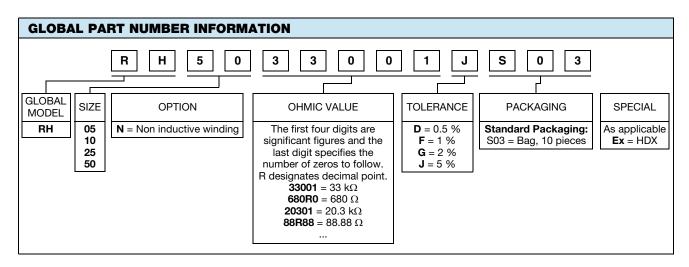


MARKING

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



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





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Revision: 13-Jun-16 1 Document Number: 91000