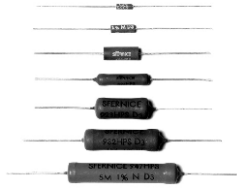


## High Ohmic Value (up to 1.5 GΩ), High Power Resistors (up to 10 W at 25 °C) Thick Film


**FEATURES**

- RoHS for most values, please consult us
- High ohmic values up to 1.5 GΩ
- Power rating up to 10 W at + 25 °C
- Molded or coated
- Ceramic core
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

DIMENSIONS in millimeters						
	<b>SERIES AND STYLE</b>	<b>A</b>	<b>Ø B</b>	<b>Ø E ± 0.1</b>	<b>WEIGHT g</b>	<b>FINISH</b>
	HPS58	6.5 ± 0.2	2.4 ± 0.1	0.6	0.24	molded
	HPS63	10 ± 0.2	3.7 ± 0.1			
	HPS68	15 ± 0.2	5.6 ± 0.3			
	HPS523	23 ± 2.3	5 ± 0.3	0.8	1.23	coated
	HPS923	23 ± 2.5	9 ± 0.5			
	HPS932	32 ± 2.5	9 ± 0.5			
	HPS947	47 ± 2.5	9 ± 0.5			

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	RESISTANCE RANGE Ω	RATED POWER P <sub>25 °C</sub> W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C	CRITICAL RESISTANCE (Ω)	CLIMATIC CATEGORY
HPS58	200 to 100M	1	300	0.5, 1, 2, 5, 10	150	90K	- 55 °C/ + 200 °C/ 56 days
HPS63	200 to 175M	2	700	0.5, 1, 2, 5, 10	150	245K	
HPS68	300 to 400M	3	1500	0.5, 1, 2, 5, 10	150	750K	
HPS523	800 to 650M	4	2000	0.5, 1, 2, 5, 10	150	1M	
HPS923	1K to 1G	6	2500	0.5, 1, 2, 5, 10	150	1.041M	
HPS932	1K to 1G	8	5000	0.5, 1, 2, 5, 10	150	3.125M	
HPS947	2K to 1.5G	10	8000	0.5, 1, 2, 5, 10	150	6.4M	

**MARKING**

GEKA trade-mark, series, style, nominal resistance (in Ω), tolerance (in %), letter P for TCR ± 150 ppm/°C, manufacturing date. Because of lack of space, small styles are marked with ohmic value (in Ω), tolerance (in %) and letter P.

ORDERING INFORMATION						
<b>HPS</b>	<b>68</b>	<b>50 MΩ</b>	<b>10 %</b>	<b>150 ppm/°C</b>	<b>BL20</b>	<b>e1</b>
MODEL	SIZE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT	PACKAGING	LEAD (Pb)-FREE



GLOBAL PART NUMBER INFORMATION															
H	P	S	0	0	6	8	5	0	0	5	K	P	B	1	5
GLOBAL MODEL	STYLE		OHMIC VALUE				TOLERANCE		TEMPERATURE COEFFICIENT		PACKAGING			SPECIAL	
HPS	HPS: 58 to 947		<p>The first three digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point.</p> <p><b>1006</b> = 100 MΩ  <b>5104</b> = 5.1 MΩ  <b>3303</b> = 330 kΩ  <b>5005</b> = 50 MΩ            ...</p>				<p><b>D</b> = 0.5 %  <b>F</b> = 1 %  <b>G</b> = 2 %  <b>J</b> = 5 %  <b>K</b> = 10 %</p>		<p><b>P</b> = 150 ppm  <b>K</b> = 100 ppm</p>		<p><b>B15</b> = Blister (20 pieces)  <b>B19</b> = Blister (30 pieces)  <b>A18</b> = Ammpack (400 pieces)  <b>A20</b> = Ammpack (500 pieces)  <b>B17</b> = Blister (25 pieces)  <b>R10</b> = Reel (500 pieces)</p> <p>As applicable</p>			As applicable	



## Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

## Material Category Policy

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.**

**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9