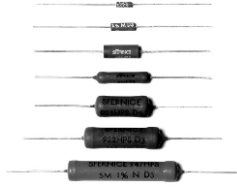


## High Ohmic Value (up to 1.5 GΩ), High Power Resistors (up to 10 W at 25 °C) Thick Film


**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

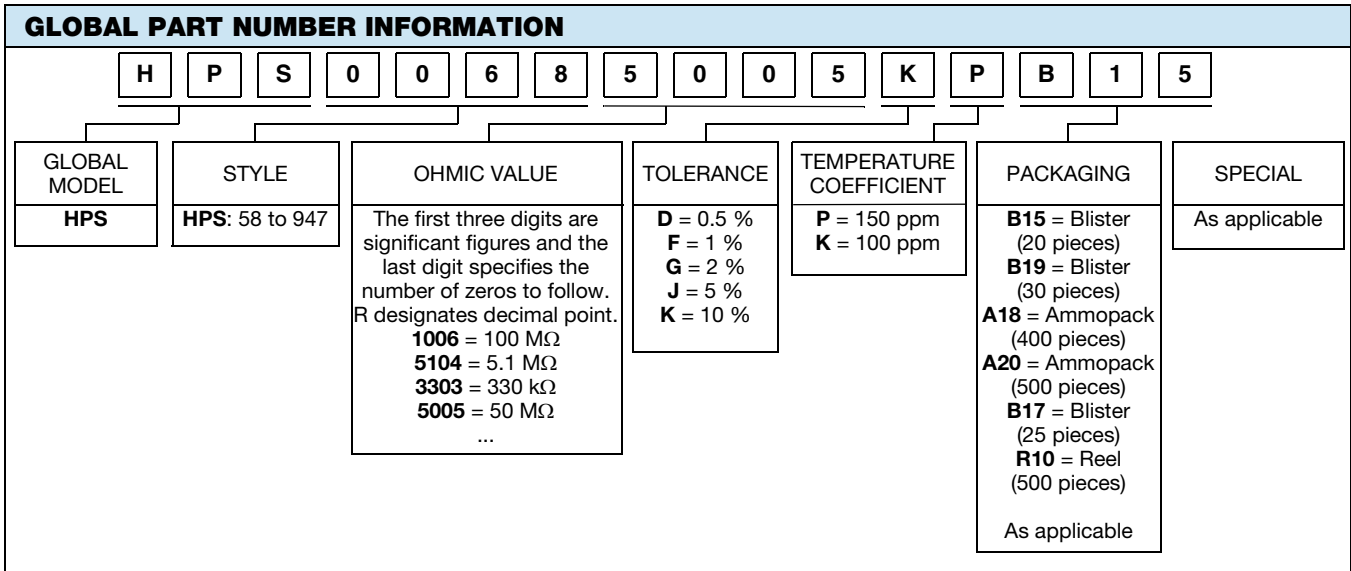
DIMENSIONS in millimeters						
	<b>SERIES AND STYLE</b>	<b>A</b>	<b>Ø B</b>	<b>Ø E ± 0.1</b>	<b>WEIGHT g</b>	<b>FINISH</b>
	HPS58	6.5 ± 0.2	2.4 ± 0.1	0.6	0.24	molded
	HPS63	10 ± 0.2	3.7 ± 0.1		0.29	
	HPS68	15 ± 0.2	5.6 ± 0.3		0.67	
	HPS523	23 ± 2.3	5 ± 0.3	0.8	1.23	coated
	HPS923	23 ± 2.5	9 ± 0.5		4.60	
	HPS932	32 ± 2.5	9 ± 0.5		5.27	
	HPS947	47 ± 2.5	9 ± 0.5		7.18	

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





## Disclaimer

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## 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.**