

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


FEATURES

- 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


RoHS
COMPLIANT

DIMENSIONS in millimeters						
	SERIES AND STYLE	A	Ø B	Ø E ± 0.1	WEIGHT g	FINISH
	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 _{25 °C} 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						
HPS	68	50 MΩ	10 %	150 ppm/°C	BL20	e1
MODEL	SIZE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT	PACKAGING	LEAD (Pb)-FREE



GLOBAL PART NUMBER INFORMATION						
<div style="display: flex; justify-content: space-around; font-weight: bold; font-size: 1.2em;"> H P S 0 6 8 5 0 0 5 K P B 1 5 </div>						
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>1006 = 100 MΩ 5104 = 5.1 MΩ 3303 = 330 kΩ 5005 = 50 MΩ ...</p>	<p>D = 0.5 % F = 1 % G = 2 % J = 5 % K = 10 %</p>	<p>P = 150 ppm K = 100 ppm</p>	<p>B15 = blister (20 pieces) B19 = blister (30 pieces) A18 = ammpack (400 pieces) A20 = ammpack (500 pieces) B17 = blister (25 pieces) R10 = reel (500 pieces) as applicable</p>	As applicable



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