

High Ohmic Value (up to 1.5 G Ω), 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 G Ω
- 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

COATED 25 min. Ø E 45° chamfer max. 0.25 mm deep Ø B Ø a ± 0.02 L max. MOLDED 25 min. Ø E Ø B	<table><tr><th>SERIES AND STYLE</th><th>A</th><th>Ø B</th><th>Ø E ± 0.1</th><th>WEIGHT g</th><th>FINISH</th></tr><tr><td>HPS58</td><td>6.5 ± 0.2</td><td>2.4 ± 0.1</td><td rowspan="2">0.6</td><td>0.24</td><td rowspan="2">molded</td></tr><tr><td>HPS63</td><td>10 ± 0.2</td><td>3.7 ± 0.1</td><td>0.29</td></tr><tr><td>HPS68</td><td>15 ± 0.2</td><td>5.6 ± 0.3</td><td rowspan="4">0.8</td><td>0.67</td><td rowspan="4">coated</td></tr><tr><td>HPS523</td><td>23 ± 2.3</td><td>5 ± 0.3</td><td>1.23</td></tr><tr><td>HPS923</td><td>23 ± 2.5</td><td>9 ± 0.5</td><td>4.60</td></tr><tr><td>HPS932</td><td>32 ± 2.5</td><td>9 ± 0.5</td><td>5.27</td></tr><tr><td>HPS947</td><td>47 ± 2.5</td><td>9 ± 0.5</td><td></td><td>7.18</td><td></td></tr></table>	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	0.8	0.67	coated	HPS523	23 ± 2.3	5 ± 0.3	1.23	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	
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STANDARD ELECTRICAL SPECIFICATIONS

MODEL	RESISTANCE RANGE Ω	RATED POWER $P_{25^\circ\text{C}}$ W	LIMITING ELEMENT VOLTAGE V	TOLERANCE $\pm \%$	TEMPERATURE COEFFICIENT $\pm \text{ppm}/^\circ\text{C}$	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 $\pm 150 \text{ ppm}/^\circ\text{C}$, 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 M Ω	10 %	150 ppm/ $^\circ\text{C}$	BL20	e1
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		The first three digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point. 1006 = 100 MΩ 5104 = 5.1 MΩ 3303 = 330 kΩ 5005 = 50 MΩ ...				D = 0.5 % F = 1 % G = 2 % J = 5 % K = 10 %		P = 150 ppm K = 100 ppm		B15 = Blister (20 pieces) B19 = Blister (30 pieces) A18 = Ammopack (400 pieces) A20 = Ammopack (500 pieces) B17 = Blister (25 pieces) R10 = Reel (500 pieces) As applicable			As applicable	



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