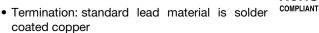
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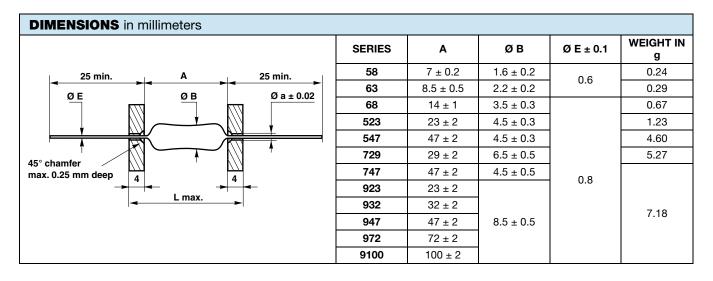


### FEATURES

- Core: high purity ceramic
- Coating: epoxy



- Climatic category: -55 °C / +155 °C / 56 days
- High ohmic values: up to 100 G $\Omega$
- High voltage application: up to 50 kV
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



STANDARD ELECTRICAL SPECIFICATIONS									
MODEL	RESISTANCE RANGE Ω	RATED POWER P <sub>70 °C</sub> W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C	CRITICAL RESISTANCE (Ω)			
HTS58	200 to 200M	0.25	500	0.5, 1, 2, 5, 10	150	1M			
HTS63	1K to 500M	0.5	1K	0.5, 1, 2, 5, 10	150	2M			
HTS68	1K to 2.5G	1	2K	0.5, 1, 2, 5, 10	150	4M			
HTS523	1K to 5G	1	5K	0.5, 1, 2, 5, 10	150	25M			
HTS547	1K to 50G	1.5	15K	0.5, 1, 2, 5, 10	150	150M			
HTS729	1K to 15G	2	10K	0.5, 1, 2, 5, 10	150	50M			
HTS747	1K to 30G	2.5	15K	0.5, 1, 2, 5, 10	150	90M			
HTS923	1K to 15G	2	8K	0.5, 1, 2, 5, 10	150	32M			
HTS932	1K to 30G	2.5	15K	0.5, 1, 2, 5, 10	150	90M			
HTS947	1K to 50G	3	20K	0.5, 1, 2, 5, 10	150	133.3M			
HTS972	1K to 100G	4	30K	0.5, 1, 2, 5, 10	150	225M			
HTS9100	1K to 100G	5	50K	0.5, 1, 2, 5, 10	150	500M			

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HTS



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TECHNICAL SPECIFICATIONS													
SERIES AND STYLES		HTS 58	HTS 63	HTS 68	HTS 523	HTS 547	HTS 729	HTS 747	HTS 923	HTS 932	HTS 947	HTS 972	HTS 9100
Power Rating at +70 °C		0.25 W	0.5 W	1 W	1 W	1.5 W	2 W	2.5 W	2 W	2.5 W	3 W	4 W	5 W
Ohmic Range	± 0.5 %	200 Ω	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ
in Relation to • Temperature	±1%	100 MΩ	1 kΩ 250 MΩ	1 kΩ 500 MΩ	1 kΩ 500 MΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ
Coefficient ± 150 ppm/°C	±2%		1 kΩ 500 MΩ	1 kΩ 2.5 GΩ	1 kΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ
Tolerance	±5% ±10%				5 GΩ	5 GΩ 1 kΩ 50 GΩ	1 kΩ 15 GΩ	1 kΩ 30 GΩ	1 kΩ 15 GΩ	1 kΩ 30 GΩ	1 kΩ 50 GΩ	1 kΩ 100 GΩ	1 kΩ 100 GΩ
Limiting Element Voltage		0.5 kV	1 kV	2 kV	5 kV	15 kV	10 kV	15 kV	8 kV	15 kV	20 kV	30 kV	50 kV
Critical Resistance		1 MΩ	2 MΩ	4 MΩ	25 MΩ	150 $M\Omega$	50 MΩ	90 MΩ	32 MΩ	90 MΩ	133.3 MΩ	225 MΩ	500 $M\Omega$

#### MARKING

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

ORDERING INFORMATION									
HTS	63	1M27	0.5 %	150 ppm/°C	AM500	e1			
MODEL	SIZE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT P: Standard: ± 150 ppm/°C	PACKAGING	LEAD (Pb)-FREE			

GLOBAL PART NUMBER INFORMATION									
H T S 0 0 6 3 1 2 7 4 D P A 2 0									
GLOBAL MODEL	STYLE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT	PACKAGING	SPECIAL			
HTS	HTS: 58 to 9100	The first three digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point. 5104 = 5.1 M $\Omega$ 3303 = 330 k $\Omega$ 1276 = 127 M $\Omega$	<b>D</b> = 0.5 % <b>F</b> = 1 % <b>G</b> = 2 % <b>J</b> = 5 % <b>K</b> = 10 %	<b>P</b> = 150 ppm <b>K</b> = 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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