

High Ohmic Values (up to 100 G Ω), High Voltage Resistors (up to 50 kV) Thick Film Technology



FEATURES

• Core: high purity ceramic

Coating: epoxy



RoHS

- Termination: standard lead material is solder coated copper
- Climatic category: -55 °C / +155 °C / 56 days
- \bullet High ohmic values: up to 100 $\mbox{G}\Omega$
- High voltage application: up to 50 kV
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

DIMENSIONS in millimeters									
			SERIES	Α	ØВ	Ø E ± 0.1	WEIGHT IN		
25 min.	Α ,	25 min.	58	7 ± 0.2	1.6 ± 0.2	0.6	0.24		
ØE	→	Ø a ± 0.02	63	8.5 ± 0.5	2.2 ± 0.2	0.6	0.29		
	ØВ	4	68	14 ± 1	3.5 ± 0.3	- 0.8	0.67		
	1		523	23 ± 2	4.5 ± 0.3		1.23		
			547	47 ± 2	4.5 ± 0.3		4.60		
			729	29 ± 2	6.5 ± 0.5		5.27		
45° chamfer max. 0.25 mm deep			747	47 ± 2	4.5 ± 0.5		7.10		
			923	23 ± 2	1				
-			932	32 ± 2	1				
			947	47 ± 2	8.5 ± 0.5		7.18		
			972	72 ± 2	1				
1			9100	100 ± 2					

STANDARD ELECTRICAL SPECIFICATIONS										
MODEL	RESISTANCE RANGE Ω	RANGE P _{70 °C} VOLTAGE		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				

Vishay Sfernice

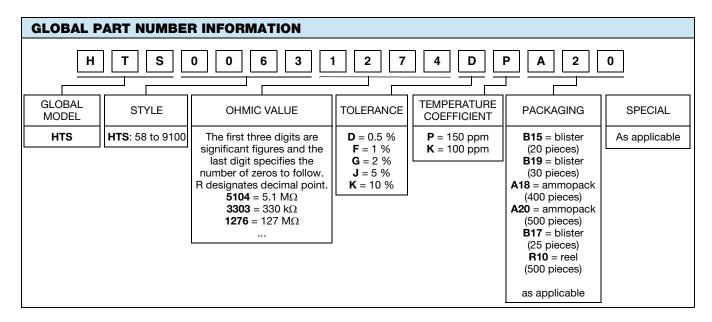


TECHNICAL SPECIFICATIONS													
SERIES AND STYLES		HTS 58	HTS 63	HTS 68	HTS 523	HTS 547	HTS 729	HTS 747	HTS 923	HTS 932	HTS 947	HTS 972	HTS 9100
Power Rating at +70 °C		0.25 W	0.5 W	1 W	1 W	1.5 W	2 W	2.5 W	2 W	2.5 W	3 W	4 W	5 W
Ohmic Range in Relation to • Temperature Coefficient ± 150 ppm/°C •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

MARKING

GEKA trade-mark, series, style, nominal resistance (in Ω), tolerance (in %), letter P for TCR \pm 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										
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				





Legal Disclaimer Notice

Vishay

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.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Thick Film Resistors - Through Hole category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

```
M8340104M4701GCD03 M8340105K3300GGD03 M8340105K3922FGD03 M8340106K1002JCD03 M8340107K1002GGD03 M8340107K1152FGD03 M8340107K2701GCD03 M8340108K1000GCD03 M8340108K5601GCD03 M8340108M2203GCD03 M8340109K1002JCD03 M8340109K1003GCD03 M8340109K5101GGD03 FHV05010M0FKRB hte24511kf ARC3.11 2M J A M8340105K1001GCD03 M8340105K3002GGD03 M8340105M1002JGD03 M8340107K2001GGD03 M8340107K4701GGD03 M8340107K5600GGD03 M8340108K4990FGD03 M8340108K49R9FGD03 M8340108M10R0GGD03 M8340108M2002GCD03 M8340109K2202GGD03 M8340109K5601GCD03 MOX-GRD-001 MOX-SP025E JANSG2N7500U5 M8340107K2001GCD03 M8340104K2052FGD03 M8340102M4701GBD04 M8340102K1002GBD04 M8340102K1002GAD04 M8340109K2002GGD03 M8340108K22R0GGD03 M8340107M5100GGD03 OE1305 M8340104K39R2FCD03 M8340107K1003GGD03 MS126-9.09K-0.1% MS126-249K-0.1% MS-221-82R5 MOX-750231004DE MOX-4-127505J SM102034504FE M8340108M2003GGD03 M8340109K8200GCD03
```