FEATURES

- Resistances from 100k to 10T Ohms
- Power Rating 0.05 to 1.5 Watt
- Resistance Tolerances to $\pm 0.25\%$
- TCR's to ±25 ppm/K
- Non-Magnetic (contact PtAg)
- High Value Thick Film Resistance Element
- High Temperature Application available with up to 300°C (CHM-HT)





TABLE 1-SPECIFICATIONS							
Ту	ре	0805	1206	1210	2010	2512	4020
Power Rat	Power Rating (W) 1)		0.25	0.35	0.5	1.0	1.5
Working	Trimmed	200	600	800	1500	2000	4000
(U_,Ueff(V))	Untrimmed (≥ 5%)	400	1000	1200	2000	3000	6000
Resistanc (ce Range 2)		Temp	Tolerances perature Coefficie Voltage Coef	Available (%) ents Available (± ficient (ppm / V	: ppm/K))	
100k -	100M	0.5% to 10% 25 / 50 / 100 100ppm/V	0.5% to 10% 25 / 50 / 100 50ppm/V	0.5% to 10% 25 / 50 / 100 50ppm/V	0.5% to 10% 25 / 50 / 100 25ppm/V	0.5% to 10% 25 / 50 / 100 10ppm/V	0.25% to 10% 25 / 50 / 100 5ppm/V
>100N	/I - 1G	2% to 20% 50 / 100 / 250 250ppm/V	2% to 20% 50 / 100 / 250 100ppm/V	1% to 20% 25 / 50 / 100 50ppm/V	1% to 20% 25 / 50 / 100 50ppm/V	1% to 20% 25 / 50 / 100 25ppm/V	0.5% to 20% 25 / 50 / 100 10ppm/V
>1G ·	- 10G	5% to 20% 250 / 500 500ppm/V	5% to 20% 50 / 100 / 250 250ppm/V	2% to 20% 25 / 50 / 100 100ppm/V	2% to 20% 25 / 50 / 100 100ppm/V	2% to 20% 25 / 50 / 100 50ppm/V	1% to 20% 25 / 50 / 100 10ppm/V
>10G -	- 100G	10% to 30% 2000 2000ppm/V	10% to 30% 250 / 500 / 1000 1000ppm/V	5% to 30% 250 / 500 / 1000 500ppm/V	5% to 30% 100 / 250 / 500 500ppm/V	5% to 30% 100 / 250 / 500 100ppm/V	2% to 30% 50 / 100 / 250 50ppm/V
>1000	G - 1T	20% to 30% 3000 5000ppm/V	10% to 30% 1000 / 2000 2000ppm/V	5% to 30% 1000 / 2000 1000ppm/V	5% to 30% 500 / 1000 1000ppm/V	5% to 30% 250 / 500 500ppm/V	5% to 30% 250 / 500 250ppm/V
>1T ·	- 10T	-	20% to 30% TCR upon request VCR upon request	20% to 30% TCR upon request VCR upon request	20% to 30% TCR upon request VCR upon request	10% to 30% TCR upon request VCR upon request	10% to 30% TCR upon request VCR upon request

¹W @ 70 °C / 0W @ 155 °C

ORDERING INFORMATION

Part Number - Resistance - Tolerance - TCR - Packaging

CHM 2512 10GOhms 10% 50ppm Tape

(Note: if no TCR is specified, the highest value will be supplied)



TABLE 1-SPECIFICATIONS (cont	-E 1—SPECIFICATIONS (continued)				
Temperature Range	-55°C to +155°C (exten	ded range up to 250°C up	on request)		
Climactic Cetegory	55 / 155 / 56				
Solderability	250°C / 3s (up to 6 month after shipment resp. at storage in Nitrogen)				
Max. Soldering Temperature	260°C / 10s				
Long Torm Stability		Max DR			
Long term stability	<1 GΩ	1 GΩ - 10 GΩ	>10 GΩ		
Permanent Power (70°C/1000h)	<0.25%	<0.5%	<1%		
Storage 125°C / 1000h	<0.5%	<1%	<2%		
Maximum Voltage / 1000h	<0.5%	<1%	<2%		

FIGURE 1-DERATING



FIGURE 2-DIMENSIONS in inches [mm]

T	Dimensions						
iype	L	В	D	С			
CHM	0.041 ±0.002	0.020 ±0.002	0.012 ±0.002	0.012 +0.008 / -0.004			
0402	[1.04 ±0.05]	[0.50 ±0.05]	[0.3 ±0.05]	[0.1 +0.1 / -0.05]			
CHM	0.059 +0.006 / -0.002	0.032 +0.006 / -0.002	0.016 +0.006 / -0.002	0.008 +0.008 / -0.004			
0603	[1.5 +0.15 / -0.05]	[0.80 +0.15 / -0.05]	[0.4 +0.15 / -0.05]	[0.2 +0.2 / -0.1]			
CHM	0.080 +0.006 / -0.002	0.050 +0.006 / -0.002	0.016 +0.006 / -0.002	0.012 +0.008 / -0.004			
0805	[2.0 +0.15 / -0.05]	[1.25 +0.15 / -0.05]	[0.4 +0.15 / -0.05]	[0.3 +0.2 / -0.1]			
CHM	0.126 +0.006 / -0.002	0.060 +0.008 / -0.002	0.016 +0.006 / -0.002	0.012 +0.008 / -0.004			
1206	[3.2 +0.15 / -0.05]	[1.5 +0.2 / -0.05]	[0.4 +0.15 / -0.05]	[0.3 +0.2 / -0.1]			
CHM	0.126 +0.006 / -0.002	0.098 +0.008 / -0.002	0.020 +0.006 / -0.002	0.032 ±0.008			
1210	[3.2 +0.15 / -0.05]	[2.5 +0.2 / -0.05]	[0.5 +0.15 / -0.05]	[0.8 ±0.2]			
CHM	0.20 +0.008 / -0.002	0.098 +0.008 / -0.002	0.024 +0.006 / -0.002	0.05 ±0.008			
2010	[5.1 +0.2 / -0.05]	[2.5 +0.2 / -0.05]	[0.6 +0.15 / -0.05]	[1.2 ±0.2]			
CHM	0.250 +0.006 / -0.002	0.138 +0.008 / -0.002	0.024 +0.006 / -0.002	0.035 ±0.008			
2512	[6.3 +0.15 / -0.05]	[3.5 +0.2 / -0.05]	[0.6 +0.15 / -0.05]	[0.9 ±0.2]			
CHM	0.40 +0.006 / -0.002	0.20 +0.008 / -0.002	0.024 +0.006 / -0.002	0.035 ±0.008			
4020	[10.20 +0.15 / -0.05]	[5.1 +0.2 / -0.05]	[0.6 +0.15 / -0.05]	[0.9 ±0.2]			



R



Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. To the maximum extent permitted by applicable law, VPG 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.

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. 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. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.