

April-2008



## High-Megohm Chip Resistor

Type CHS

Size: 0402, 0603, 0805, 1206, 1210, and 2512

### Features:

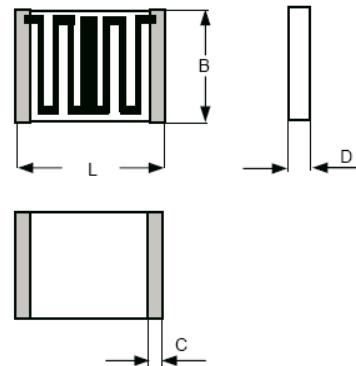
- High Value Chip Resistors in Thickfilm
- Low temperature and voltage dependency
- Contact areas PtAg for glueing and soldering
- 100 M up untrimmed with higher working voltage



### Dimensions:

Size	L	B	D	C
0402	1.04 <sup>+0.06</sup>	0.50 <sup>+0.06</sup>	0.30 <sup>+0.05</sup>	0.1 <sup>+0.1</sup> <sub>-0.05</sub>
0603	1.5 <sup>+0.15</sup> <sub>-0.05</sub>	0.8 <sup>+0.15</sup> <sub>-0.05</sub>	0.4 <sup>+0.15</sup> <sub>-0.05</sub>	0.2 <sup>+0.2</sup> <sub>-0.1</sub>
0805	2.0 <sup>+0.15</sup> <sub>-0.05</sub>	1.2 <sup>+0.2</sup> <sub>-0.05</sub>	0.4 <sup>+0.15</sup> <sub>-0.05</sub>	0.3 <sup>+0.2</sup> <sub>-0.1</sub>
1206	3.2 <sup>+0.15</sup> <sub>-0.05</sub>	1.5 <sup>+0.2</sup> <sub>-0.05</sub>	0.4 <sup>+0.15</sup> <sub>-0.05</sub>	0.3 <sup>+0.2</sup> <sub>-0.1</sub>
1210	3.2 <sup>+0.15</sup> <sub>-0.05</sub>	2.5 <sup>+0.2</sup> <sub>-0.05</sub>	0.5 <sup>+0.15</sup> <sub>-0.05</sub>	0.8 <sup>+0.2</sup>
2512	6.3 <sup>+0.15</sup> <sub>-0.05</sub>	3.5 <sup>+0.2</sup> <sub>-0.05</sub>	0.6 <sup>+0.15</sup> <sub>-0.05</sub>	0.9 <sup>+0.2</sup>

L = Length, B = Width, D = Thickness, C = Width of wrap around (in mm)



### Packaging:

Bulk in plastic bags or tubes – minimum quantity 100 pieces per value

Blistertape acc. to DIN IEC 286-3/EIA 481-1-A – minimum 2000 pieces per value

Tape width 8mm except 2512 (12mm)

Reel diameter 180mm or 330mm

### Ordering data:

Type – Value – Tolerance – TCR – Measuring voltage – Packaging

Example: CHS 2512 10G ± 10% TCR500

Measuring voltage 20V – Tape – Reel diameter

If no requirements for TCR, measuring voltage and taping are given, the standard value (higher value in table) will be supplied, 10 V is used for measuring and packaging is bulk.

**Part Number: (Sample CHS1206-100MD-FR is CHS1206 100MΩ±1%/100ppm/Reel)**

CHS <size>-Resistance and TC (if applicable)-Tolerance and Pack



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Page: 1 of 2

High-Megohm Chip Resistor  
 Type CHS  
 Size: 0402, 0603, 0805, 1206, 1210, and 2512

Technical data – depending on size:

Size	0402	0603	0805	1206	1210	2512
Power rating $P_{70}$ (mW) ( $P_{25} = 0$ mW)	50	75	125	250	350	600
Working voltage $U_{tr}$ , $U_{untr}$ (V) trimmed untrimmed	30 90	75 200	100 300	200 600	300 900	1000 2000

Ranges/TCR/Tolerances/VCR <sup>1)</sup> :						
10M – 100M	TC 100/250 5/10/20 % <0,2%/V	TC 100/250 1/././20 % <0,1%/V	TC 50/100 1/././20 % <0,05%/V	TC 50/100 1/././20 % <0,05%/V	TC 50/100 1/././20 % <0,02%/V	TC 50/100 1/././20 % <0,01%/V
> 100M – 1G	TC 250/500 5/10/20 % <0,5%/V	TC 250/500 5/10/20 % <0,2%/V	TC 250/500 5/10/20 % <0,1%/V	TC 100/250 5/10/20 % <0,1%/V	TC 100/250 5/10/20 % <0,05%/V	TC 100/250 5/10/20 % <0,02%/V
> 1G – 10G	TC 1000/2000 10/20/30 % <1%/V	TC 500/1000 10/20/30 % <0,5%/V	TC 500/1000 5/10/20 % <0,5%/V	TC 500/1000 5/10/20 % <0,2%/V	TC 250/500 5/10/20 % <0,1%/V	TC 250/500 5/10/20 % <0,05%/V
> 10G – 33G	-	TC 500/1000 10/20/30 % <1%/V	TC 500/1000 10/20/30 % <1%/V	TC 500/1000 10/20/30 % <0,5%/V	TC 250/500 5/10/20 % <0,2%/V	TC 250/500 5/10/20 % <0,1%/V
> 33G – 100G	-	-	TC 1000/2000 10/20/30 % <2%/V	TC 1000/2000 10/20/30 % <1%/V	TC 500/1000 5/10/20/30 % <0,5%/V	TC 500/1000 5/10/20 % <0,2%/V

Lower values of tolerance, TCR and VCR on request and agreement  
 Tin-plated contacts on request

Technical data – general:

Temperature range	-55°C...+125°C
Climatic category acc. to IEC 68	55/125/56
Solderability <sup>2)</sup>	235°C 5s
Max. soldering temperature <sup>3)</sup>	260°C 10s

Long term stability:	< 100M	< 1G	≥ 1G	
Storage 125°C/1000h	< 1%	< 2%	< 5%	
Max. voltage/1000h	< 0,5%	< 1%	< 2%	

1) TC 50: Temperature range +25°C...+125°C  
 VCR: negative

2) DIN IEC 68 T2-20, Ta Meth. 1  
 (up to 6 months after shipment resp. at storage in Nitrogen)

3) DIN IEC 68 T2-20, Tb Meth. 1A

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 Page: 2 of 2