

# Precision High Value Chip Resistors

## Type: CHM, CRM

### Sizes: 0805, 1206, 1210, 2512

#### Features:

- Meander structured High Value Chip Resistors in Thickfilm
- Low temperature and voltage dependency
- High Working Voltage up to 3000V
- Suitable for high vacuum applications-no organics

#### Contact areas:

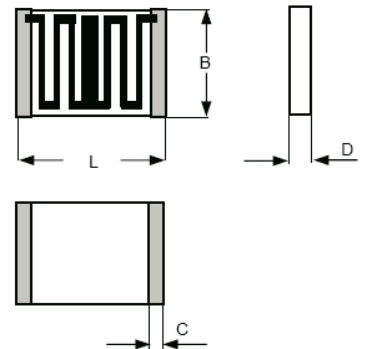
- CHM: Pt/Ag for conductive glueing and soldering
- CRM: Nickel-barrier/matte tin



#### Dimensions:

Size	L	B	D	C
0805	2.00 <sup>+0.15/-0.05</sup>	1.25 <sup>+0.15/-0.05</sup>	0.40 <sup>+0.15/-0.05</sup>	0.3 <sup>+0.2/-0.1</sup>
1206	3.20 <sup>+0.15/-0.05</sup>	1.50 <sup>+0.2/-0.05</sup>	0.40 <sup>+0.15/-0.05</sup>	0.3 <sup>+0.2/-0.1</sup>
1210	3.20 <sup>+0.15/-0.05</sup>	2.50 <sup>+0.2/-0.05</sup>	0.50 <sup>+0.15/-0.05</sup>	0.8 <sup>±0.2</sup>
2512	6.30 <sup>+0.15/-0.05</sup>	3.50 <sup>+0.2/-0.05</sup>	0.60 <sup>+0.15/-0.05</sup>	0.9 <sup>±0.2</sup>

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



#### Packaging:

Bulk in plastic bags – minimum quantity 30 pieces per value  
 Blister tape acc. to IEC 60286-3 – minimum 500 pieces per value  
 Reel diameter 180 mm or 330 mm

#### Ordering Data:

Type – value – tolerance – TCR – packaging - measuring voltage (range 0.1V-100V)  
 Example: CHM 2512 10G ±10% TCR 100 Tape 180 mm 20V  
 If no requirements for TCR, measuring voltage and taping are given, the standard value (highest value in table) will be supplied, measuring voltage of 10V is used and packaging is bulk.

**Part Number: (Sample CHM2512-100MC-FR is CHM2512 100MΩ/±1%/50ppm/Reel)**  
 CHM or CRM<size>-Resistance and TC (if applicable)-Tolerance and Pack



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 Issue: January-2007  
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**Technical data – depending on size:**

Size	0805	1206	1210	2512
Power rating $P_{70}$ (mW) ( $P_{155} = 0$ mW)	125	250	350	1000
Working voltage $U_{-}$ , $U_{eff}$ (V) trimmed untrimmed (Tol. > 5%)	200 600	600 1000	1000 1200	2000 3000
Ranges / Tolerances / TCR <sup>1)</sup> / VCR <sup>2)</sup>				
100K – 100M	0.5/1/2/5/10% TC25/50/100 <50 ppm/V	0.5/1/2/5/10% TC25/50/100 <50 ppm/V	0.5/1/2/5/10% TC25/50/100 <25 ppm/V	0.5/1/2/5/10% TC25/50/100 <10 ppm/V
>100M – 1G	2/5/10/20% TC50/100/250 <250 ppm/V	2/5/10/20% TC50/100/250 <100 ppm/V	1/2/5/10% TC25/50/100 <50 ppm/V	1/2/5/10% TC25/50/100 <25 ppm/V
>1G – 10G	5/10/20% TC100/250 <500 ppm/V	5/10/20% TC100/250 <250 ppm/V	2/5/10/20% TC50/100 <100 ppm/V	2/5/10/20% TC50/100 <100 ppm/V
>10G – 100G	10/20/30% TC500/1000 <1000 ppm/V	10/20/30% TC500/1000 <1000 ppm/V	5/10/20% TC500/1000 <500 ppm/V	5/10/20% TC100/250 <250 ppm/V
>100G – 1T	10/20/30% TC1000/2000 <2000 ppm/V	10/20/30% TC1000/2000 <2000 ppm/V	5/10/20/30% TC500/1000 <1000 ppm/V	5/10/20% TC250/500 <500 ppm/V
>1T – 10T	–	10/20/30% TC2000 <3000 ppm/V	5/10/20/30% TC1000/2000 <2000 ppm/V	5/10/20/30% TC500/2000 <1000 ppm/V

1) TC25/50: Temperature range +25°C...+85°C

2) VCR measured between 10V and 100V

Lower values of tolerance, TCR and VCR on request and agreement

Special versions with Au-contacts on request

**Technical data – general:**

Temperature range	-55°C ... +155°C
Climatic category acc. to DIN EN 60068-1	55/155/56
Solderability acc DIN EN 60068-2-58 (lead-free and lead-containing) <sup>3)</sup>	250°C 3s
Max. soldering temperature acc. DIN EN 60068-2-58	260°C 10s

Long term stability	<1G	<10G	≥10G
Storage 125°C/1000h	<0.5%	<1%	<2%
Max voltage/1000h	<0.5%	<1%	<2%

3) Up to 6 months after shipment resp. at storage in Nitrogen

Data not specified according CECC 40401-802

Issue 05-2006



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