

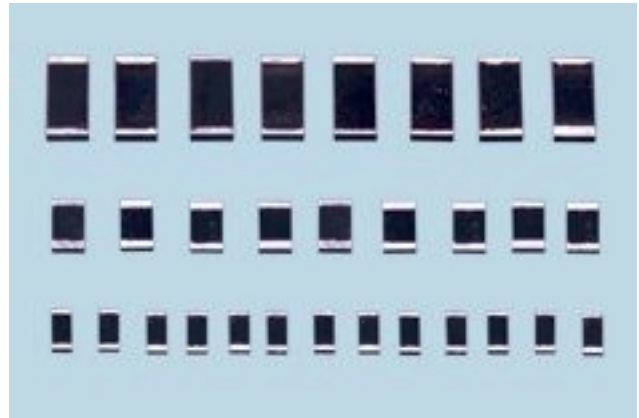
Precision Chip Resistors

Type: **CMF**

Sizes: **RR0603, RR0805, RR1206, RR1210, RR2010, RR2512**

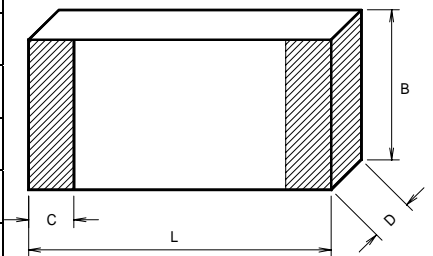
Features:

- Chip Resistors in Thinfilm
- Contact areas tinned - resistant to leaching
- Close tolerances (0,05%)
- Low TCR (5 ppm/K)
- extreme low noise



Dimensions:

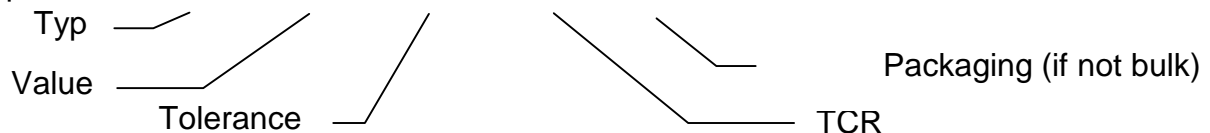
Size	metric	L	B	D	C
RR0603	RR1608M	1,6 ^{±0,1}	0,8 ^{±0,1}	0,45 ^{±0,1}	0,3 ^{±0,2}
RR0805	RR2012M	2,0 ^{±0,1}	1,25 ^{±0,1}	0,55 ^{±0,1}	0,4 ^{±0,2}
RR1206	RR3216M	3,2 ^{±0,2}	1,6 ^{±0,15}	0,55 ^{±0,1}	0,5 ^{±0,2}
RR1210	RR3225M	3,2 ^{±0,2}	2,5 ^{±0,2}	0,55 ^{±0,1}	0,5 ^{±0,2}
RR2010	RR5025M	5,0 ^{±0,2}	2,5 ^{±0,2}	0,55 ^{±0,2}	0,5 ^{±0,2}
RR2512	RR6332M	6,3 ^{±0,2}	3,2 ^{±0,2}	0,55 ^{±0,2}	0,5 ^{±0,2}



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

Bestellangaben:

Example.: CMF 0805 - 100K ± 0,1% - TK 15 - bulk



Packaging:

Bulk or Tape/Reel acc. to DIN IEC 60286-3

(tape-width: 8 mm, reel-diameter: 180 mm)

Minimum quantity bulk: 100 pieces per value

Minimum quantity tape: 1000 pieces per value



Technical data - depending on size:

Ranges	0603 TCR/Tolerances	0805 TCR/Tolerances	1206 TCR/Tolerances	1210 TCR/Tolerances	2010 TCR/Tolerances	2512 TCR/Tolerances
5R1-< 10R	-	-	TK 50 1%	TK 50 1%	TK 50 1%	TK 50 1%
10R-< 47R	≥TK 25 ≥0,1%	≥TK 25 ≥0,1%	≥TK 25 ≥0,1%	≥TK 25 ≥0,1%	≥TK 25 ≥0,1%	≥TK 25 ≥0,1%
47R - <100R	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%
100R - 10K	≥TK 5 ≥0,1%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%
>10K - 100K	≥TK 5 ≥0,1%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%
>100K - 332K	≥TK 5 ≥0,1%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%
>332K - 511K	-	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%
>511K - 1M	-	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%	≥TK 5 ≥0,05%
>1M - 2M	-	-	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%	≥TK 10 ≥0,1%
>2M - 5M	-	-	-	-	≥TK 10 ≥0,25%	≥TK 10 ≥0,25%
>5M - 15M	-	-	-	-	-	≥TK 10 ≥0,25%

Noise-diagrams on request

Size	Stability class	0603	0805	1206	1210	2010	2512
Power rating P ₇₀ (mW)	0,5; 1	65	125	250	400	500	750
	0,1	32	50	100	150	250	400
Working voltage U ₋ , U _{eff} (V) ^{1*}	0,1; 0,5; 1	100	200	300	300	300	300

Technical data - general:

Temperature range	-55°C...+125°C
Climatic category acc. to DIN IEC 68	55/125/56
Solderability	235°C; 2s
Max. soldering temperature	260°C; 10s

Long term stability	47 Ω - 15 MΩ	< 47 Ω
Storage 125 °C/1000h	< 0,15 %	< 0,25 %
Storage 155 °C/1000h	< 0,35 %	< 0,5 %
Load P ₇₀ /70°C/1000h	< 0,1 %	< 0,25 %
Damp heat (56d/40°C/96%)	< 0,15 %	< 0,5 %

Data not specified:: CECC 40401-801

Stand: 02/99



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 Issue: April-2001