


fixed resistors

carbon film

CR16 CR25 CR37
CR52 CR68 CR93

For detailed information
Handbook CM2a

Resistance ranges	from 1 Ω to 10 M Ω ; E12 or E24 series			
Resistance tolerance	5 and 10%			
Abs. max. dissipation	CR16	0,2 W	CR52	0,67 W
at $T_{amb} = 70^\circ\text{C}$	CR25	0,33 W	CR68	1,15 W
	CR37	0,5 W	CR93	2 W
Basic specification	IEC 115-1, 115-2			
Climatic category (IEC 68)	55/155/56			
Stability after load	see nomogram			



colour	first two digits of resistance value	multiplier	tolerance
black	0		1 x
brown	1		10 x
red	2		100 x
orange	3		1 000 x
yellow	4		10 000 x
green	5		100 000 x
blue	6		1 000 000 x
violet	7		
grey	8		
white	9		
silver			$\pm 10\%$
gold			0,1 x $\pm 5\%$

style	limiting voltage V(r.m.s.)	rated dissipation at 70 °C W	resistance range	tolerance %	series	catalogue no.
CR16	150	0,2	10 Ω - 220 k Ω 270 k Ω - 1 M Ω	5 10	E24 E12	2322 210 13 ... 2322 210 12 ...
CR16 on reel			10 Ω - 220 k Ω 270 k Ω - 1 M Ω	5 10	E24 E12	2322 210 23 ... 2322 210 22 ...
CR25	150	0,33	1 Ω - 1 M Ω 1,2 M Ω - 10 M Ω	5 10	E24 E12	2322 211 13 ... 2322 211 12 ...
CR25 on reel			1 Ω - 1 M Ω 1,2 M Ω - 10 M Ω	5 10	E24 E12	2322 211 23 ... 2322 211 22 ...
CR25A	250	0,33	1 Ω - 1 M Ω 1,2 M Ω - 10 M Ω	5 10	E24 E12	2322 106 33 ... 2322 106 32 ...
CR37	350	0,5	1 Ω - 1 M Ω 1,2 M Ω - 10 M Ω	5 10	E24 E12	2322 212 13 ... 2322 212 12 ...
CR37 on reel			1 Ω - 1 M Ω 1,2 M Ω - 10 M Ω	5 10	E24 E12	2322 212 23 ... 2322 212 22 ...
CR52 ¹⁾	500	0,67	1 Ω - 1 M Ω	5	E24	2322 213 13 ...
CR68 ¹⁾	750	1,15	1 Ω - 1 M Ω	5	E24	2322 214 13 ...
CR93 ¹⁾	1000	2	10 Ω - 1 M Ω	5	E24	2322 215 13 ...

¹⁾ For values > 1 M Ω see high-voltage resistors VR37 and VR68

Composition of the catalogue no.

In the above-mentioned catalogue no., replace the first two dots by the first two digits of the resistance value.

Replace the third dot by a figure according to the following table:

Example	1 - 9,1 Ω	8	10 - 91 k Ω	3
	10 - 91 Ω	9	100 - 910 k Ω	4
	100 - 910 Ω	1	1 - 9,1 M Ω	5
Style CR25 (not on reel) 10 Ω , 5% cat. no. 2322 211 13109	1 - 9,1 k Ω	2	10 M Ω	6