

# fixed resistors

## metal film-lacquered

MR25 MR30 MR52

Resistance ranges	from 1 Ω to 1 MΩ E24, E96 and E192 series
Resistance tolerance	± 0,5, ± 1, ± 2, ± 5%
Temperature coefficient	± 50, ± 100, ± 200 ppm/ °C
Abs. max. dissipation at T <sub>amb</sub> = 70 °C	MR25 0,4 W MR30 0,5 W MR52 0,75 W
Basic specification	IEC 115-1
Climatic category (IEC68)	55/155/56
Stability after load	see nomogram

for E96 series			
E192 series colour	first digits of resistance value	multiplier	tolerance
black	0	1 x	
brown	1	10 x	± 1%
red	2	100 x	± 2%
orange	3	1 000 x	
yellow	4	10 000 x	
green	5	100 000 x	± 0,5%
blue	6		
violet	7		
grey	8		
white	9		
silver		0,01 x	
gold		0,1 x	± 5%

for E24 series			
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style	limiting voltage (r.m.s.) V	rated dissipation at 70 °C W	resistance range	tolerance ± %	series	temperature coefficient ± ppm/ °C	catalogue no. 2322 followed by
MR25	250	0,4	4,99 Ω - 681 kΩ	0,5	E192	50 <sup>1)</sup>	151 7 .....
	250		4,99 Ω - 681 kΩ	1	E96 + E24	50 <sup>1)</sup>	151 5 .....
	250		1 Ω - 680 kΩ	2	E24	100	151 4 .....
	250		1 Ω - 680 kΩ	5	E24	200	151 6 .....
	250		4,99 Ω - 681 kΩ	1	E96	50 <sup>1)</sup>	151 2 .....
MR25 on reel	250		1 Ω - 680 kΩ	2	E24	100	151 1 .....
	250		1 Ω - 680 kΩ	5	E24	200	151 3 .....
MR30	350	0,5	4,99 Ω - 1 MΩ	0,5	E192	50 <sup>1)</sup>	152 7 .....
	350		4,99 Ω - 1 MΩ	1	E96 + E24	50 <sup>1)</sup>	152 5 .....
	350		5,1 Ω - 1 MΩ	2	E24	100	152 4 .....
	350		5,1 Ω - 1 MΩ	5	E24	200	152 6 .....
	350		4,99 Ω - 1 MΩ	1	E96	50 <sup>1)</sup>	152 2 .....
MR30 on reel	350		5,1 Ω - 1 MΩ	2	E24	100	152 1 .....
	350		5,1 Ω - 1 MΩ	5	E24	200	152 3 .....
MR52	500	0,75	4,99 Ω - 1 MΩ	1	E96	100	153 5 .....

Composition of the catalogue no. 2322

Style code  
see table

Tolerance code  
7 for ± 0,5%,  
2 or 5 for ± 1%,  
1 or 4 for ± 2%,  
3 or 6 for ± 5%.

Resistance code: first three figures of the resistance value followed by

8 for R of 1 to 9,76 Ω  
9 for R of 10 to 97,6 Ω  
1 for R of 100 to 976 Ω  
2 for R of 1 to 9,76 kΩ  
3 for R of 10 to 97,6 kΩ  
4 for R of 100 to 976 kΩ  
5 for R of 1 MΩ

Example

The catalogue no. of an MR30 resistor of 3650 Ω with a tolerance of 1% is 2322 152 53652.

<sup>1)</sup> For values < 49,9 Ω: 100 ppm/ °C.