

Metal Film Resistors
axial, coated
Specification

YAGEO Type		MF 0204	MF 0207
VITROHM Type		490-0	491-0
Style		0204	0207
Power rating P_{70}	W	0,4	0,6
Resistance range	Ω	see page 2	
E-series		see page 2	
Tolerance	%	see page 2	
Temperature coefficient	$10^{-6} * K^{-1}$	see page 2	
max. cont. working voltage	V_{RMS}	200	300
Voltage coefficient	$10^{-6} V^{-1}$	< 1	
Insulation voltage (1min.)	V_{RMS}	400	500
Insulation resistance	$M\Omega$	> 10^4	
Derating	$^{\circ}C$	linear 70 ... 155 (0W)	
Climatic category		55/156/56	
Temperature range	$^{\circ}C$	- 55 ... 155	
Thermal resistance	KW^{-1}	200	140
Failure rate (Total, ϑ_0 max., 60% conf. lev.)	$10^{-9} h^{-1}$	< 10	< 5
Endurance (P_{70} , @ 70 $^{\circ}C$, 1000h, interm.)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 1,5$	
Damp heat, steady state (40 $^{\circ}C$, 93% r.h., 56d)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 1,5$	
Climatic sequence	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 1,5$	$\pm 1,0$

Series GP

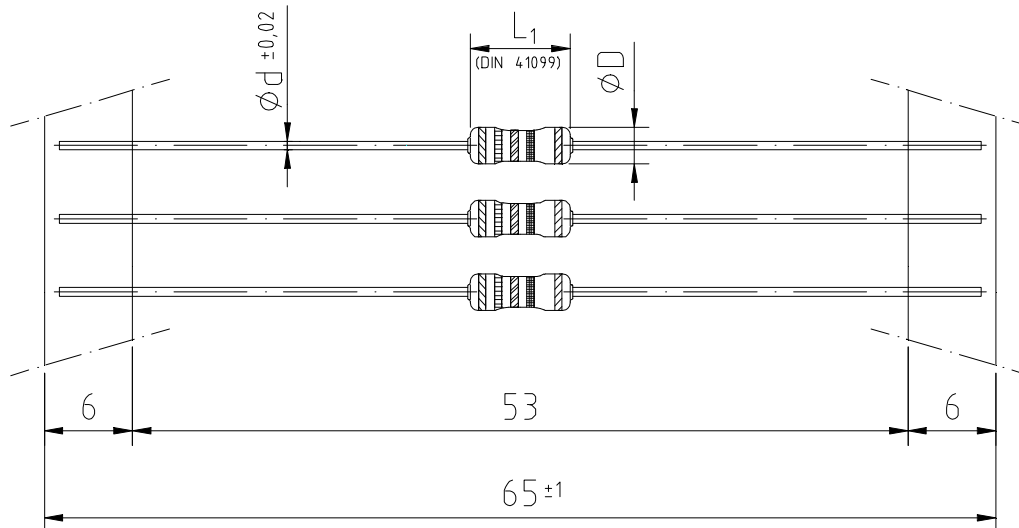
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Type		MF 0204	MF 0207
Terminal strength	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 0,25$	$\pm 0,1$
Terminal tensile strength	N	30	40
Resistance to soldering heat (260°C, 10s)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 0,25$	
Solderability	s	2,5 Flowtime, Solderglobule test, IEC 60068-2-20-T	
Current noise (DIN/IEC 195)	dB	R < 10K: - 25 R > 10K: - 25 + 8/decade	
Nonlinearity (DIN/IEC 440)	dB	110	
Marking		DIN-IEC Colour code	5 bands (TC 50) 6 bands (TC < 50)

Type Vitrohm Type	Resistance range [Ω]	Tolerances [%]	Temperature coefficient [10 ⁻⁶ *K ⁻¹]	E-series
MF 0204 490-0	1R0 ... 5M1	± 1	± 50	E 96
	10R ... 1M0	$\pm 0,5$	± 50	E 96
	51R1 ... 332K	$\pm 0,1$	± 25	E 96 *
MF 0207 491-0	R22 ... R91	± 5	± 200	E 24
	1R0 ... 10M	± 1	± 50	E 96/E 24
	10R ... 1M5	$\pm 0,5$	± 50	E 96
	5R1 ... 1M0	$\pm 0,1$	± 25	E 96
* diverging values on request				

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Dimensions in mm:



Type	Vitrohm Type	L ₁ [mm]	Ø D [mm]	Ø d [mm]	Tape step [mm]
MF 0204	490-0	3,3 ± 0,4	1,8 ± 0,3	0,5	5
MF 0207	491-0	6,3 ± 0,5	2,3 ± 0,3	0,6	5

Packaging:

Type	Vitrohm Type	Tolerance	Packaging	Pieces	Pack.-Code
MF 0204	490-0	± 1, ± 0,5	Ammopack	5000	20
		± 0,1	Ammopack	1000	10
MF 0207	491-0	± 1, ± 0,5	Ammopack	5000	20
		± 0,1	Ammopack	1000	10

Ordering example: MF 0207 127K 0,1% 25 10
 Type Value Tolerance TC Pack.-code