

SMD-Metal Film Resistors
MELF Style
Specification

Type		501-0	500-0
Style		0204	0207
Power rating P_{70}	W	0,25	1,0
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	500
Voltage coefficient	10^{-6} V^{-1}	< 1	
Insulation voltage (1min.)	V_{RMS}	300	500
Insulation resistance	Ω	$> 10^4 \text{ M}$	$> 10^4 \text{ M}$
Derating	$^{\circ}\text{C}$	linear 70 ... 125 (0W)	linear 70 ... 155 (0W)
Climatic category		55/125/56	55/155/56
Temperature range	$^{\circ}\text{C}$	- 55 ... 125	- 55 ... 155
Thermal resistance	KW^{-1}	200	85
Failure rate (Total, ϑ_0 max., 60% conf. lev.)	10^{-9} h^{-1}	< 10	< 5
Endurance (P_{70} , @ 70 $^{\circ}\text{C}$, 1000h, interm.)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 0,25$	$\pm 1,5$
Damp heat, steady state (40 $^{\circ}\text{C}$, 93% r.h., 56d)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 0,25$	$\pm 0,5$
Climatic sequence	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 0,1$	

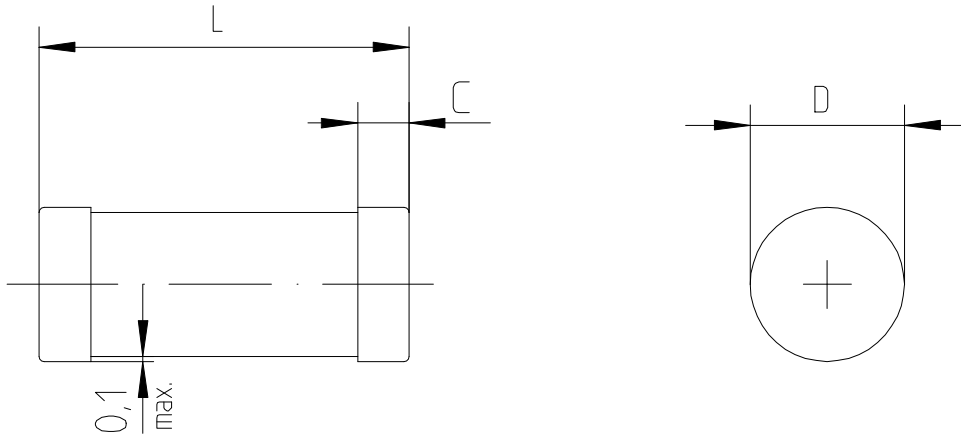
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Type		501-0	500-0
Terminal strength		Board-bend test CECC 00802; 10 x 2mm	
Resistance to soldering heat (260°C, 10s)	$\left[\frac{\Delta R}{R} \right] \%$	± 0,1	± 0,25
Solderability		Solder-bath test CECC 00802, 95% wetting	
Current noise (DIN/IEC 195)	dB	R < 10K: -25 R > 10K: -25 + 8 / decade	
Nonlinearity	dB	110	
OR0 (Jumper) Current rating		2A (R _{max} = R015)	
Marking		DIN-IEC-Colour code, 5 bands	

Resistance range 500-0	Resistance range 501-0	Tolerance	Temperature coefficient	E-series
--	R22 ... R91	± 5%	100 * 10 ⁻⁶ K ⁻¹	E 24
R22 ... R91	R51 ... R91	± 2%	100 * 10 ⁻⁶ K ⁻¹	E 24
1R0 ... 10M	1R0 ... 10M	± 1%	50 * 10 ⁻⁶ K ⁻¹	E 24/E 96
--	10R ... 475K	± 0,5%	50 * 10 ⁻⁶ K ⁻¹	E 24/E 96
--	10R ... 475K	± 0,5%	25 * 10 ⁻⁶ K ⁻¹	E 24/E 96
--	10R ... 221K	± 0,5%	15 * 10 ⁻⁶ K ⁻¹	E 24/E 96
--	22R ... 330K	± 0,25%	25 * 10 ⁻⁶ K ⁻¹	E 24/E 96
--	R22 ... 221K	± 0,25%	15 * 10 ⁻⁶ K ⁻¹	E 24/E 96
--	43R ... 330K	± 0,1%	25 * 10 ⁻⁶ K ⁻¹	E 24/E 96
--	43R ... 221K	± 0,1%	15 * 10 ⁻⁶ K ⁻¹	E 24/E 96

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Dimensions in mm:



Typ	L	C	ø D max.
501-0	3,6 -0,2	0,5 +0,35	1,4
500-0	5,8 -0,3	0,9 ±0,30	2,2

Packaging:

Type	Packaging	Pieces	Pack.-Code
501-0	8mm Blistertape	2500	7C
	8mm Blistertape	10000	7R
500-0	12mm Blistertape	1500	7D

Ordering example: 501-0 1K0 1% 50 7C
 Type Value Tolerance TC Pack.-Code