

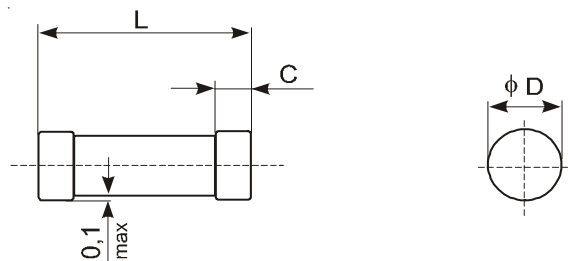
SMD-Metal Film Resistors MELF Style



Specifications

Type		ZC0204	ZC0207
Style		0204	0207
Power rating P_{70}	W	0,25 (0,4W for min. 8.000h)	1,0
Resistance range	W	see next page	
E-Series		see next page	
Tolerances	%	see next page	
Temperature coefficient	$10^{-6} * K^{-1}$	see next page	
max. cont. work. voltage	V_{RMS}	200	500
Voltage coefficient	$10^{-6} * V^{-1}$	< 1	
Insulation voltage (1min.)	V_{RMS}	300	500
Insulation resistance	W	$> 10^4 M$	$> 10^4 M$
Derating	°C	linear 70 ... 155 (0W)	linear 70 ... 155 (0W)
Climatic category		55/155/56	55/155/56
Temperature range	°C	- 55 ... 155	- 55 ... 155
Thermal resistance	KW^{-1}	200	85
Pad size / cut-layer	mm	1,5 x 1,5 / 35m	5,5 x 5,5 / 70m
Failure rate (Total, J_0 max., 60% conf. lev.)	$10^{-9} h^{-1}$	< 10	< 5
Endurance (P_{70} , @ 70°C, 1000h interm.)	%	± 0,25	± 1,5
Damp heat, steady state (40°C, 93% r.h., 56d)	$\left[\frac{PR}{R}\right]$ %	± 0,25	± 0,5
Climatic sequence	%	± 0,1	
Terminal strength	$\left[\frac{PR}{R}\right]$ %	Board-bend test CECC 00802; 10 x 2 mm	
Resistance to soldering heat (260°C, 10s)	$\left[\frac{PR}{R}\right]$ %	± 0,1	± 0,25
Solderability	$\left[\frac{PR}{R}\right]_S$	Solder-bath test CECC 00802, 95% wetting	
Current noise (DIN/IEC 195)	dB	R<10K: -25 R>10K: -25 + 8 / decade	
Nonlinearity (DIN/IEC 440)	dB	110	
OR0 (Jumper) Current rating		2A ($R_{max} = R015$)	
Marking		DIN-IEC-Colour code, 5 bands	

Dimensions in mm:



Resistance range ZC0207	Resistance range ZC0204	Tolerance	Temperature coefficient	E-Series
0R16 ... 0R2	0R22 ... 0R91	± 5%	$100 \cdot 10^{-6} \text{ K}^{-1}$	E 24
0R22 ... 0R91	0R51 ... 0R91	± 2%	$100 \cdot 10^{-6} \text{ K}^{-1}$	E 24
1R ... 10M	1R ... 10M	±1%	$50 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96
1R ... 2M2	10R ... 475K	± 0,5%	$50 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96
-	10R ... 475K	± 0,5%	$25 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96
-	10R ... 221K	± 0,5%	$15 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96
100R ... 511K	22R ... 330K	± 0,25%	$25 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96
-	22R ... 221K	± 0,25%	$15 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96
100R ... 511K	43R ... 330K	± 0,1%	$25 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96
-	43R ... 221K	± 0,1%	$15 \cdot 10^{-6} \text{ K}^{-1}$	E 24/E96

Tolerance	Coding	Temperature coefficient	Coding	Coating
5%	J	100	F	light green
2%	G	50	E	light green
1%	F	25	D	pink
0,5%	D	15	C	violet
0,25%	C			
0,1%	B			

Typ	L	C	Ø D max.
ZC0204	3,6 -0,2	0,5 + 0,35	1,4
ZC0207	5,8 -0,3	0,9 ± 0,30	2,2

Packaging:

Type	Packaging	Pieces	Tolerance
ZC0204	8mm Blistertape 7 inch	3000	all
	8mm Blistertape 13 inch	10000	all
ZC0207	12mm Blistertape 7inch	1500	all

Ordering example:

ZC0204
0-0hm = ZC0204
Type

F K
F K
Tolerance Blister Tape

E 07 1K
E 07 0R
TC Reel Diameter R-Value