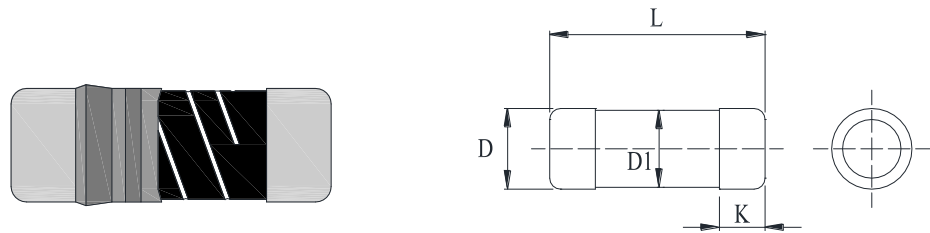


METAL FILM MELF RESISTORS

INTRODUCTION:

The WMF MELF series Metal Film MELF Resistors are manufactured using the latest Magnetron Vacuum Sputtering System. This ensures a very stable resistive medium having a very low temperature coefficient. The resistors are insulated with layers of lacquer. The WMF MELF series resistors are suitable for surface mount technologies.



TECHNICAL SPECIFICATIONS

Size	Power Rating at 70°C (W)	Ambient Temperature (°C)	Max Working Voltage (V)	Max Overload Voltage (V)	TCR (PPM/°C)	Resistance Range (Ω)
						Tolerances: 1% 2% 5%
0102	0.125W	-55 ~ +155	150	300	±100; ±50; ±25	0.22 ~ 2M2
0204	0.125W	-55 ~ +155	200	400		0.1 ~ 2M2
	0.25W					0.1 ~ 2M2
0207	0.25W	-55 ~ +155	250	500		0.1 ~ 10M
	0.5W					
0309	0.5W	-55 ~ +155	350	700		

Type	Dimensions(mm)			
	L	D Max	D1	K Min
102	2.0 ± 0.1	1.35	1.25 ± 0.05	0.3
204	3.5 ± 0.2	1.55	1.4 ± 0.1	0.5
207	5.9 ± 0.2	2.4	2.2 ± 0.1	1
309	8.5 ± 0.2	3.4	3.2 ± 0.2	1

STANDARD RESISTANCE VALUES

E 24 Series

10	11	12	13	15	16	18	20	22	24	27	30
33	36	39	43	47	51	56	62	68	75	82	91

E 96 Series

100	102	105	107	110	113	115	118	121	124	127	130	133	137	140	143
147	150	154	158	162	165	169	174	178	182	187	191	196	200	205	210
215	221	226	232	237	243	249	255	261	267	274	280	287	294	301	309
316	324	332	340	348	357	365	374	383	392	402	412	422	432	442	453
464	475	487	499	511	523	536	549	562	576	590	604	619	634	649	665
681	698	715	732	750	768	787	806	825	845	866	887	909	931	953	976

CHARACTERISTICS

Terminal Strength	no damage ΔR max. $\pm 0.5\%$
Resistance to soldering heat (350°C)	ΔR max. $\pm 1\%$
Solderability	good tinnin no damage
Temperature Cycling -55°C to + 155°C	ΔR max. $\pm 0.25\%$
Life 1000 hours at Rated Power	ΔR max. $\pm 1\%$
Short time overload	ΔR max. $\pm 0.5\%$
Resistance to solvents	no damage

POWER DERATING

For resistors operated at ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.

