

METAL OXIDE RESISTORS - FLAME PROOF

INTRODUCTION:

The WMO series Metal Oxide Resistors are manufactured using the latest technology to ensure a very stable resistive medium. The resistors are insulated with layers of flame proof epoxy. The WMO series offer a wide range of power rating (0.25W, 0.50W, 1W, 2W, 3W & 4W) having tolerance ranges of $\pm 1\%$ & $\pm 5\%$

SPECIFICATIONS				
Type No.	WMO 25 / WMO 50M / WMO 100MM	WMO 50 / WMO 100M WMO 200MM	WMO 100 / WMO 200M WMO 300MM	WMO 200 / WMO 300M WMO 400MM
Rated Power at 70°C	0.25 W / 0.50 W / 1 W	0.50 W / 1 W / 2 W	1 W / 2 W / 3 W	2 W / 3 W / 4 W
Resistance Range (E24 series)	0.1 E to 10 Meg	0.1 E to 10 Meg	0.1 E to 10 Meg	0.1 E to 10 Meg
Maximum working voltage at 70°C at normal air pressure	250 V	350 V	500 V	500 V
Maximum Over Load Voltage	500 V	700 V	1000 V	1000 V
Operating Temperature Range	- 40°C to + 150°C	- 40°C to + 150°C	- 40°C to + 150°C	- 40°C to + 150°C
Dielectric Strength	250V No break down ΔR max. $\pm 0.5\%$	350V No break down ΔR max. $\pm 0.5\%$	500V No break down ΔR max. $\pm 0.5\%$	500V No break down ΔR max. $\pm 0.5\%$

Please note 'M' denotes miniature size and 'MM' denotes double miniature size

CHARACTERISTICS

Terminal Strength	no damage ΔR max. $\pm 0.5\%$
Resistance to soldering heat (350°C)	ΔR max. $\pm 0.5\%$
Solderability	good tinnin no damage
Temperature Cycling -40°C to + 150°C	ΔR max. $\pm 0.25\%$
Life 1000 hours at Rated Power	ΔR max. $\pm 1\%$
Short time overload	ΔR max. $\pm 1\%$
Resistance to solvents	no damage

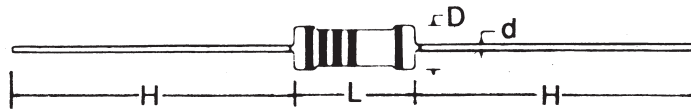
STANDARD RESISTANCE VALUES E 24 Series

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

DIMENSIONS (in mm)



TYPE WMO 25 / WMO 50M	H = 26 ± 2	L = 6.0 ± 0.4	D = 2.2 ± 0.1	d = 0.50 ± 0.05
TYPE WMO 50 / WMO 100M	H = 26 ± 2	L = 9.0 ± 0.5	D = 3.2 ± 0.2	d = 0.60 ± 0.05
TYPE WMO 100 / WMO 200M	H = 26 ± 2	L = 11 ± 1.0	D = 4.3 ± 0.5	d = 0.65 ± 0.05
TYPE WMO 200 / WMO 300M	H = 26 ± 2	L = 15 ± 1.0	D = 5.0 ± 0.5	d = 0.75 ± 0.05

Colour	1st figure	2nd figure	3rd figure	multiplier	Tolerance
Black	0	0	0	1	
Brown	1	1	1	10	±1%
Red	2	2	2	100	±2%
Orange	3	3	3	1,000	
Yellow	4	4	4	10,000	
Green	5	5	5	100,000	±0.5%
Blue	6	6	6	1,000,000	±0.25%
Violet	7	7	7	10,000,000	±0.1%
Gray	8	8	8		
White	9	9	9		
Gold				0.1	±5%
Silver				0.01	±10%

POWER DERATING

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

