

# Metal Oxide Film Fixed Resistors

## Performance Specification

Temperature Coefficient	±350PPM/°C
Short Time Overload	Normal size: ±(1.0% + 0.05Ω)Max, with no evidence of mechanical damage. Small size: ±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Pulse Overload	Normal size: ±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage. Small size: ±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Terminal Strength	No evidence of mechanical damage.
Resistance to Soldering Heat	±(1.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Resistance to Solvent	No deterioration of protective coating and markings.
Temperature Cycling	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Humidity (Steady state)	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life in Humidity	<100KΩ: ±(5.0% + 0.05Ω)Max ≥100KΩ: ±(10.0% + 0.05Ω)Max
Load Life	<100KΩ: ±(5.0% + 0.05Ω)Max ≥100KΩ: ±(10.0% + 0.05Ω)Max
Non-Flame	No evidence of flaming or arcing.

## Ordering Procedure: Ex.: MOR 1/2W, +/-5%, 100Ω, T/B-1000

**M O R 0 W 2 J 0 1 0 1 A 1 0**

Type:  
MOR = Metal Oxide Film

Feature:  
0 = Standard  
I = Non-Inductive

Wattage:  
Normal size  
W4 = 1/4W  
W2 = 1/2W  
1W = 1W  
2W = 2W  
3W = 3W  
5W = 5W  
7W = 7W  
8W = 8W  
9W = 9W

Small size  
S2 = 1/2W-S  
1S = 1W-S  
2S = 2W-S  
3S = 3W-S  
4S = 4W-S  
5S = 5W-S

Tolerance:  
G = ±2%  
J = ±5%  
K = ±10%

Resistance Value:

- E-24 series:  
1<sup>st</sup> digit is "0"  
2<sup>nd</sup> & 3<sup>rd</sup> digits are the significant figures of the resistance  
4<sup>th</sup> indicates the number of zeros:  
"J" ~ 0.1, "K" ~ 0.01

Ex.: 4.7Ω, ~ 47J, 4.7KΩ ~ 472

- E-96 series:  
1<sup>st</sup> to 3<sup>rd</sup> digits are the significant figures of the resistance and the 4<sup>th</sup> digit indicates the number of zeros.

Ex.: 1.33 KΩ = 1331

Packing Type:

- A = Tape/Box
- T = Tape/Reel
- B = Bulk/Box
- P = Tape/Box of PT-26mm

Packing Qty:

- 1 = 1,000 pcs. 2 = 2,000 pcs.
- 5 = 5,000 pcs. A = 500 pcs.
- B = 2,500 pcs. 0 = Bulk/Box

Additional Information:

- 0 = PT-52mm, PT-26mm, Standard lead wire for Bulk/Box
- 8 = PT-58mm
- 9 = PT-64mm
- 7 = Lead wire (H=38mm)
- A = PT-83mm
- C = PT-73mm
- D = PT-71mm

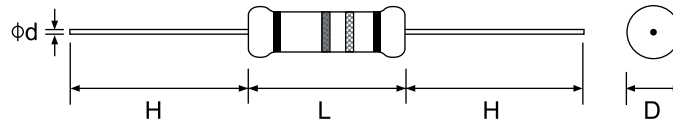
# Metal Oxide Film Fixed Resistors

## Features

- High safety standard, high purity ceramic core
- Excellent non-flame coating, non-inductive type available
- Stable performance in diverse environment, meet EIAJ-RC2655A requirements
- Too low or too high ohmic value can be supplied on a case to case basis



Standard : 2% ,5% ,10% -- E - 24 series

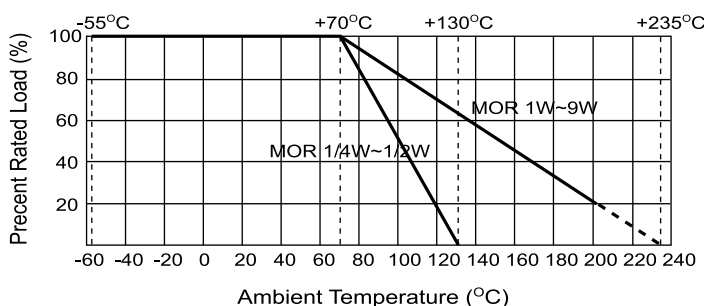


Part No.	Style	Power Rating at 70°C	Dimension (mm)					Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Std Packing Qty
			D Max	L max	H±3	d±0.05	PT					
<b>Normal Size</b>												
MOR0W4	MOR 25	1/4W (0.25W)	2.5	7.5	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	5,000
MOR0W2	MOR 50	1/2W (0.50W)	3.5	10.0	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	1,000
MOR01W	MOR 100	1W	5	12.0	25	0.70	52	350V	600V	350V	0.3Ω ~ 50KΩ	1,000
MOR02W	MOR 200	2W	5.5	16.0	28	0.70	64	350V	600V	350V	0.3Ω ~ 50KΩ	1,000
MOR03W	MOR 300	3W	6.5	17.5	28	0.75	64	500V	800V	500V	5Ω ~ 100KΩ	500
MOR05W	MOR 500	5W	8.6	26.0	38	0.75	B/B	750V	1000V	750V	5Ω ~ 150KΩ	1,000
MOR07W	MOR 700	7W	8.5	32.0	38	0.75	B/B	750V	1000V	750V	20Ω ~ 150KΩ	1,600
MOR08W	MOR 800	8W	8.5	41.0	38	0.75	B/B	750V	1000V	750V	30Ω ~ 200KΩ	1,600
MOR09W	MOR 900	9W	8.5	54.0	38	0.75	B/B	750V	1000V	750V	50Ω ~ 200KΩ	1,800
<b>Small Size</b>												
MOR0S2	MOR-50-S	1/2W (0.50W)	2.5	7.5	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	5,000
MOR01S	MOR-100-S	1W	3.5	10.0	28	0.54	52	350V	600V	350V	0.3Ω ~ 50KΩ	1,000
MOR02S	MOR-200-S	2W	5.0	12.0	25	0.70	52	350V	600V	350V	0.3Ω ~ 50KΩ	1,000
MOR03S	MOR-300-S	3W	5.5	16.0	28	0.70	64	350V	600V	350V	0.3Ω ~ 50KΩ	1,000
MOR04S	MOR-400-S	4W	6.5	17.5	28	0.75	64	500V	800V	500V	5Ω ~ 100KΩ	500
MOR05S	MOR-500-S	5W	6.6	18.5	28	0.75	64	500V	800V	500V	5Ω ~ 100KΩ	500

**Note:**

- Standard gray base color for normal size product, sea blue color for small size and extra small size product
- Standard Non-flammable coating
- Non-Inductive type available on a case to case basis

**Derating Curve**



**Heat Rise Chart**

