

Metal Oxide Film Fixed Resistors

Performance Specification

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

Ordering Procedure: Ex.: MOR 1/2W, +/-5%, 100 Ω , 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 = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$

Resistance Value:

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

Ex.: 4.7 Ω , ~ 47J, 4.7K Ω ~ 472

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

Ex.: 1.33 K Ω = 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

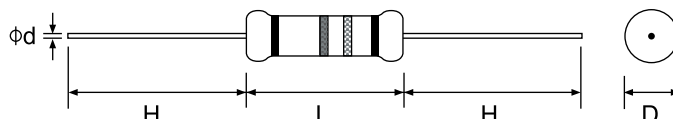
Metal Oxide Film Fixed Resistors

Features

- High safety standard, high purity ceramic core
- Excellent non-flame coating, non-inductivetype 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

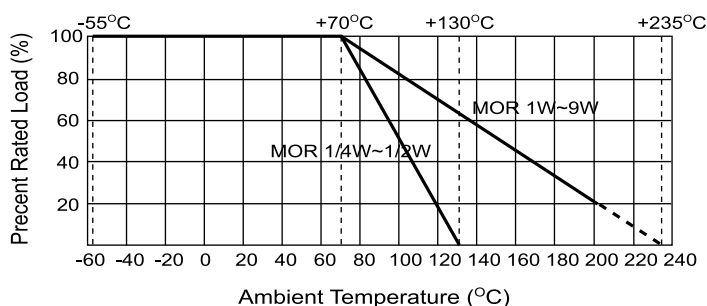


Part No.	Style	Power Rating at 70°C	Dimension (mm)					Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Std Packing Qty
			D Max	L max	H±3	d±0.05	PT					
Normal Size												
MOR0W4	MOR 25	1/4W (0.25W)	2.5	7.5	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	5,000
MOR0W2	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
Small Size												
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

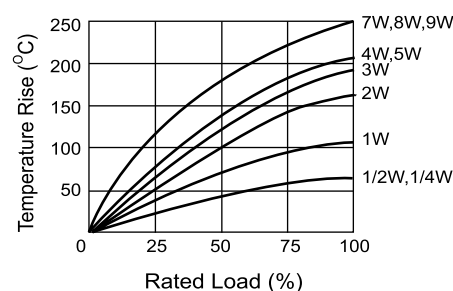
Note:

- 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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Royalohm:

<u>MOR05WJ0100B00</u>	<u>MOR05WJ0101B00</u>	<u>MOR05WJ0102B00</u>	<u>MOR05WJ0103B00</u>	<u>MOR05WJ0104B00</u>
<u>MOR05WJ0121B00</u>	<u>MOR05WJ0123B00</u>	<u>MOR05WJ0150B00</u>	<u>MOR05WJ0151B00</u>	<u>MOR05WJ0153B00</u>
<u>MOR05WJ0163B00</u>	<u>MOR05WJ0182B00</u>	<u>MOR05WJ0183B00</u>	<u>MOR05WJ0203B00</u>	<u>MOR05WJ0204B00</u>
<u>MOR05WJ0220B00</u>	<u>MOR05WJ0221B00</u>	<u>MOR05WJ0222B00</u>	<u>MOR05WJ0241B00</u>	<u>MOR05WJ0301B00</u>
<u>MOR05WJ0303B00</u>	<u>MOR05WJ0330B00</u>	<u>MOR05WJ0331B00</u>	<u>MOR05WJ0332B00</u>	<u>MOR05WJ0333B00</u>
<u>MOR05WJ0361B00</u>	<u>MOR05WJ0393B00</u>	<u>MOR05WJ0431B00</u>	<u>MOR05WJ0470B00</u>	<u>MOR05WJ0471B00</u>
<u>MOR05WJ0472B00</u>	<u>MOR05WJ0473B00</u>	<u>MOR05WJ0510B00</u>	<u>MOR05WJ0511B00</u>	<u>MOR05WJ0512B00</u>
<u>MOR05WJ0513B00</u>	<u>MOR05WJ051JB00</u>	<u>MOR05WJ0563B00</u>	<u>MOR05WJ0622B00</u>	<u>MOR05WJ062JB00</u>
<u>MOR05WJ0680B00</u>	<u>MOR05WJ0681B00</u>	<u>MOR05WJ0682B00</u>	<u>MOR05WJ0683B00</u>	<u>MOR05WJ068JB00</u>
<u>MOR01SJ0100B00</u>	<u>MOR01SJ0101B00</u>	<u>MOR01SJ0101TB0</u>	<u>MOR01SJ0102B00</u>	<u>MOR01SJ0102TB0</u>
<u>MOR01SJ0103B00</u>	<u>MOR01SJ0104B00</u>	<u>MOR01SJ0104TB0</u>	<u>MOR01SJ0105B00</u>	<u>MOR01SJ010JB00</u>
<u>MOR01SJ0110B00</u>	<u>MOR01SJ0111B00</u>	<u>MOR01SJ0112B00</u>	<u>MOR01SJ0113B00</u>	<u>MOR01SJ0114B00</u>
<u>MOR01SJ011JB00</u>	<u>MOR01SJ011JTB0</u>	<u>MOR01SJ0120B00</u>	<u>MOR01SJ0121B00</u>	<u>MOR01SJ0121TB0</u>
<u>MOR01SJ0122B00</u>	<u>MOR01SJ0123B00</u>	<u>MOR01SJ0124B00</u>	<u>MOR01SJ012JB00</u>	<u>MOR01SJ0130B00</u>
<u>MOR01SJ0131B00</u>	<u>MOR01SJ0132B00</u>	<u>MOR01SJ0133B00</u>	<u>MOR01SJ0134B00</u>	<u>MOR01SJ013JB00</u>
<u>MOR01SJ0150B00</u>	<u>MOR01SJ0151B00</u>	<u>MOR01SJ0152B00</u>	<u>MOR01SJ0153B00</u>	<u>MOR01SJ0154B00</u>
<u>MOR01SJ015JB00</u>	<u>MOR01SJ0160B00</u>	<u>MOR01SJ0161B00</u>	<u>MOR01SJ0162B00</u>	<u>MOR01SJ0163B00</u>
<u>MOR01SJ016JB00</u>	<u>MOR01SJ0180B00</u>	<u>MOR01SJ0181B00</u>	<u>MOR01SJ0182B00</u>	<u>MOR01SJ0182TB0</u>
<u>MOR01SJ0183B00</u>	<u>MOR01SJ0184B00</u>	<u>MOR01SJ018JB00</u>	<u>MOR01SJ0200B00</u>	<u>MOR01SJ0201B00</u>
<u>MOR01SJ0202B00</u>	<u>MOR01SJ0203B00</u>	<u>MOR01SJ0204B00</u>	<u>MOR01SJ020JB00</u>	<u>MOR01SJ0220B00</u>