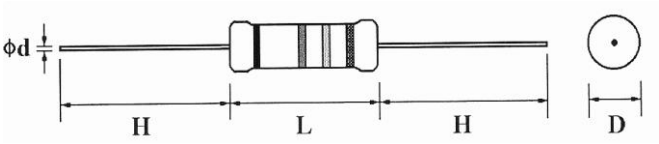
METAL OXIDE FILM FIXED RESISTORS

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



Normal Size

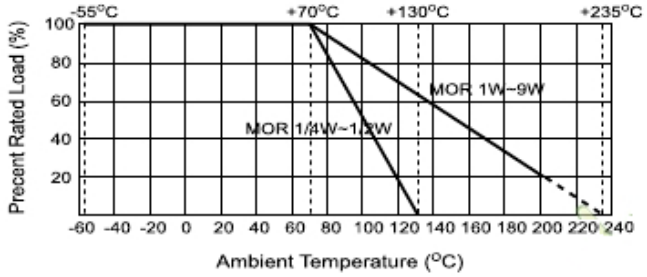
Part No	Style	Power Rating at 70℃	Dimension (mm)					Max. Working Voltage	Max. Overload Voltage	Dielectric With-Standing Voltage	Resistance Range	Std Packing Qty
			D Max	L Max	H ±3	d ± 0.05	PT					
MOR0W4	MOR-25	1/4W (0.25W)	2.5	7.5	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	5,000
MOR0W2	MOR-50	1/2W (0.5W)	3.5	10.0	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	1,000
MOR01W	MOR-100	1W	5.0	12.0	28	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	8.5	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 ~	1,600
MOR08W	MOR-800	8W	8.5	41.0	38	0.75	B/B	750V	1000V	750V	30Ω ~	1,600
MOR09W	MOR-900	9W	8.5	54.0	38	0.75	B/B	750V	1000V	750V	50Ω ~	1,800

Small Size

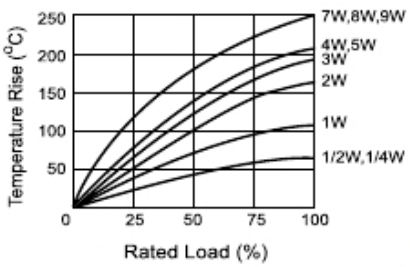
Part No	Style	Power Rating at 70℃	Dimension (mm)					Max. Working Voltage	Max. Overload Voltage	Dielectric With-Standing Voltage	Resistance Range	Std Packing Qty
			D Max.	L Max.	H ±3	d ± 0.05	PT					
MOR0S2	MOR-50-S	1/2W (0.5W)	2.5	7.5	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	5,000
MOR01S	MOR-100-S	1W	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	28	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
MOR05U	MOR-500-SS	5W	6.5	17.5	28	0.75	64	500V	800V	500V	5Ω ~ 100KΩ	500
MOR05S	MOR-500-S	5W	8.0	25.0	38	0.75	B/B	500V	800V	500V	5Ω ~ 150KΩ	1,000

Note :
- Standard E-24 series values in ±5% tolerance
- Standard gray base color for normal size product ; sea blue color for small size product
- Standard Non-flammable coating
- Non-Inductive type available on a case to case basis

Derating Curve



Heat Rise Chart



METAL OXIDE FILM FIXED RESISTORS

Performance Specifications

Temperature coefficient	350PPM/°C :
Short time overload	Normal size: $\Delta R/R \leq \pm(1\% + 0.05\Omega)$, with no evidence of mechanical damage. Small size: $\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown
Pulse overload	Normal size: $\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$, with no evidence of mechanical damage. Small size : $\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Terminal strength	No evidence of mechanical damage.
Resistance to soldering heat	$\Delta R/R \leq \pm(1.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Resistance to solvent	No deterioration of protective coating and markings.
Temperature cycling	$\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Humidity (Steady state)	$\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$, with no evidence of mechanical damage
Load life in humidity	$\Delta R/R \leq \pm5\%$ for $< 100K\Omega$; $\pm10\%$ for $\geq \pm100K\Omega$
Load life	$\Delta R/R \leq \pm5\%$ for $< 100K\Omega$; $\pm10\%$ for $\geq \pm100K\Omega$
Non-Flame	No evidence of flaming or arcing.

Ordering Procedure : (Ex : MOR 1/2W, ±5%, 10KΩ, T/B-1000)

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

Resistor Type:
MOR = Metal Oxide Film Fixed Resistors

Special Feature:
0 = Standard Product
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
5S=5W-S
Extra small size: 5U=5W-SS
:

Tolerance
G = ±2%, J = ±5%, K = ±10%

Resistance Value:
- E-24 series: the 1st digit is "0", the 2nd & 3nd digit are for the significant figures of the resistance and the 4th indicate the number of zeros: "J" ~ 0.1, "K" ~ 0.01
  Ex.: 4.7Ω ~ 47J, 4.7KΩ ~ 472
- E-96 series: the 1st to 3rd digits are significant figures of resistance and the 4th one denotes number of zeros.
  Ex: 1.33KΩ = 1331

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

Packing Qty:
1 = 1,000 pcs, 2= 2,000 pcs
5 = 5,000 pcs, A = 500 pcs
B = 2,500 pcs, 0= for Bulk / Box packing

Additional Information:
0 = PT-25mm, 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