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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



Α

0

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

M O R 0 W 2 J 0 1 0 1

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:

 $G = \pm 2\%$, $J = \pm 5\%$, $K = \pm 10\%$

Resistance Value:

- E-24 series: the 1st digit is "0", the 2nd & 3rd digits are for the significant figures of the resistance and the 4th indicate the number of zeros: "J" ~ 0.1, "K" ~ 0.01
 - **Ex.** $4.7\Omega \sim 47J$, $4.7K\Omega \sim 472$
- E-96 series: The 1st to 3rd digits are significant figures of resistance and the 4th one denotes number of zeros.

Ex. $1.33 \text{ K}\Omega = 1331$

Packing Type:

A = Tape / Box T = Tape / Reel

B = Bulk / Box P = Tape / Box of

Packing Qty:

PT-26 mm

B = 2,500 pcs, 0 = for Bulk / Box packing.

* More explanation on part no, please see details on pages 79-80.

Performance Specifications

1 = 1,000 pcs, 2 = 2,000 pcs, 5 = 5,000 pcs, A = 500 pcs,

Temperature coefficient ± 350PPM/°C

Short-time overload Normal size: $\Delta R/R \le \pm (1.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Small size: $\Delta R/R \le \pm (2.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Dielectric withstanding voltage No evidence of flashover, mechanical damage, arcing or insulation breakdown.

Pulse overload Normal size: $\Delta R/R \le \pm (2.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Small size: $\Delta R/R \le \pm (5.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Terminal strength No evidence of mechanical damage.

Resistance to soldering heat $\Delta R/R \le \pm (1.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Solderability Min. 95% coverage

Resistance to solvent
No deterioration of protective coating and markings.

Temperature cycling $\Delta R/R \le \pm (2.0\% + 0.05\Omega)$, with no evidence of mechanical damage. Humidity (Steady state) $\Delta R/R \le \pm (2.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Load life in humidity $\Delta R/R \le \pm 5\%$ for $< 100K\Omega$; $\pm 10\%$ for $\ge \pm 100K\Omega$

Load life $\Delta R/R \le \pm 5\%$ for <100K Ω ; $\pm 10\%$ for $\ge \pm 100$ K Ω

Non-Flame No evidence of flaming or arcing.

Additional Information:

0 = PT-52 mm, NIL for PT-26 8 = PT-58 mm 9 = PT-64 mm 7 = Lead wire (H=38mm)

*More details, please see pages 77-78.

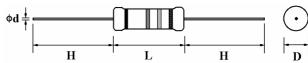




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Normal Size



Part No.	Style	Power Rating at 70°C	Dimension (mm)				Max.	Max.	Dielectric	
			D Max.	L Max.	H ± 3	d ± 0.05	Working Voltage	Overload Voltage	Withstanding Voltage	Resistance Range
MOR0W4	MOR-25	1/4W (0.25W)	2.5	7.5	28	0.54	250V	400V	250V	0.3Ω~50ΚΩ
MOR0W2	MOR-50	1/2W (0.5W)	3.5	10.0	28	0.54	250V	400V	250V	0.3Ω~50ΚΩ
MOR01W	MOR-100	1W	5.0	12.0	28	0.70	350V	600V	350V	0.3Ω~50ΚΩ
MOR02W	MOR-200	2W	5.5	16.0	28	0.70	350V	600V	350V	0.3Ω ~ 50ΚΩ
MOR03W	MOR-300	3W	6.5	17.5	28	0.75	500V	800V	500V	5Ω∼100ΚΩ
MOR05W	MOR-500	5W	8.5	26.0	38	0.75	750V	1,000V	750V	5Ω~150ΚΩ
MOR07W	MOR-700	7W	8.5	32.0	38	0.75	750V	1,000V	750V	20Ω ~ 150ΚΩ
MOR08W	MOR-800	8W	8.5	41.0	38	0.75	750V	1,000V	750V	30Ω ~ 200ΚΩ
MOR09W	MOR-900	9W	8.5	54.0	38	0.75	750V	1,000V	750V	50Ω~200ΚΩ

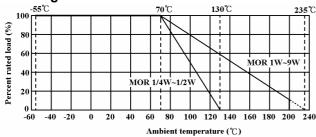
Small Size

Part No.	Style	Power Rating at 70°C	Dimension (mm)				Max.	Max.	Dielectric	
			D Max.	L Max.	H±3	d ± 0.05	Working Voltage	Overload Voltage		Resistance Range
MOR0S2	MOR-50-S	1/2W (0.5W)	2.5	7.5	28	0.54	250V	400V	250V	0.3Ω~50ΚΩ
MOR01S	MOR-100-S	1W	3.5	10.0	28	0.54	350V	600V	350V	0.3Ω~50ΚΩ
MOR02S	MOR-200-S	2W	5.0	12.0	28	0.70	350V	600V	350V	0.3Ω~50ΚΩ
MOR03S	MOR-300-S	3//	5.5	16.0	28	0.70	350V	600V	350V	0.3Ω~50ΚΩ
MOR05U	MOR-500-SS	5W	6.5	17.5	28	0.75	500V	800V	500V	5Ω~100ΚΩ
MOR05S	MOR-500-S	5W	8.0	25.0	38	0.75	500V	800V	500V	5Ω ~ 150ΚΩ

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

