

ROYALOHM

Metal Oxide Film Fixed Resistors

Performance Specification

Temperature Coefficient	±350PPM/°C
Short Time Overload	Normal size: $\pm(1.0\% + 0.05\Omega)\text{Max}$, with no evidence of mechanical damage. Small size: $\pm(2.0\% + 0.05\Omega)\text{Max}$, with no evidence of mechanical damage.
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Pulse Overload	Normal size: $\pm(2.0\% + 0.05\Omega)\text{Max}$, with no evidence of mechanical damage. Small size: $\pm(5.0\% + 0.05\Omega)\text{Max}$, with no evidence of mechanical damage.
Terminal Strength	No evidence of mechanical damage.
Resistance to Soldering Heat	$\pm(1.0\% + 0.05\Omega)\text{Max}$, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Resistance to Solvent	No deterioration of protective coating and markings.
Temperature Cycling	$\pm(2.0\% + 0.05\Omega)\text{Max}$, with no evidence of mechanical damage.
Humidity (Steady state)	$\pm(2.0\% + 0.05\Omega)\text{Max}$, with no evidence of mechanical damage.
Load Life in Humidity	<100K Ω : $\pm(5.0\% + 0.05\Omega)\text{Max}$ $\geq 100\text{K}\Omega$: $\pm(10.0\% + 0.05\Omega)\text{Max}$
Load Life	<100K Ω : $\pm(5.0\% + 0.05\Omega)\text{Max}$ $\geq 100\text{K}\Omega$: $\pm(10.0\% + 0.05\Omega)\text{Max}$
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 Extra small size 5U = 5W-SS		Resistance Value: • E-24 series: 1 st digit is "0" 2 nd & 3 rd digits are the significant figures of the resistance 4 th indicates the number of zeros: "J" ~ 0.1, "K" ~ 0.01 Ex.: 4.7 Ω , ~ 47J, 4.7K Ω ~ 472 • E-96 series: 1 st to 3 rd digits are the significant figures of the resistance and the 4 th 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	
				Tolerance: G = ±2% J = ±5% K = ±10%									



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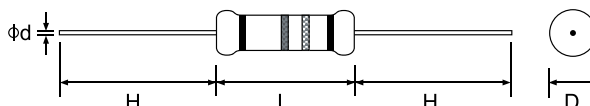
Metal Oxide Film Fixed Resistors

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



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



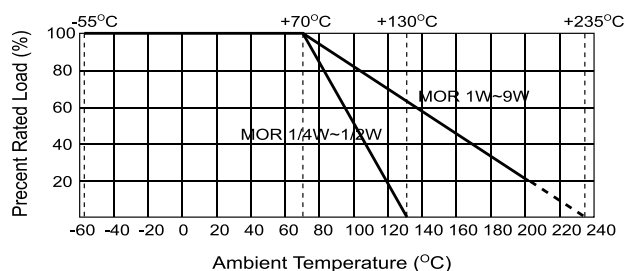
Part No.	Style	Power Rating at 70°C	Dimension (mm)					Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Std Packing Qty
			D Max	L Max	H±3	d±0.05	PT					
Normal Size												
MOR0W4	MOR 25	1/4W (0.25W)	2.5	7.5	28	0.54	52	250V	400V	250V	0.3Ω ~ 50KΩ	5,000
MOR0W2	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	5.0	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	8.5	26.0	38	0.75	B/B	750V	1,000V	750V	5Ω ~ 150KΩ	1,000
MOR07W	MOR 700	7W	8.5	32.0	38	0.75	B/B	750V	1,000V	750V	20Ω ~ 150KΩ	1,600
MOR08W	MOR 800	8W	8.5	41.0	38	0.75	B/B	750V	1,000V	750V	30Ω ~ 200KΩ	1,600
MOR09W	MOR 900	9W	8.5	54.0	38	0.75	B/B	750V	1,000V	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	8.0	25.0	38	0.75	B/B	500V	800V	500V	5Ω ~ 150KΩ	1,000
Extra Small Size												
MOR05U	MOR-500-SS	5W	6.5	17.5	28	0.75	64	500V	800V	500V	5Ω ~ 100KΩ	500

Serie 01/05000-00

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

