

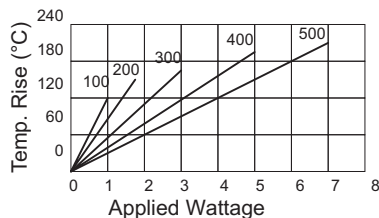
### INTRODUCTION

Metal Oxide Resistors offer excellent performance in applications where stability and uniformity of characteristics are desired. The complex Oxide materials used gives this series long-term stability, low temperature coefficient and negligible inductance, making it a suitable replacement for carbon composition resistors, high surge/overload capability and flameproof construction make this an alternative for many lower power wire wound resistor.

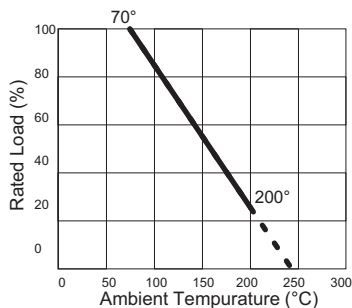
### FEATURES

- Excellent long-term stability
- Complete flameproof construction
- High surge/overload capability
- Wide resistance range
- Standard tolerance:  $\pm 5\%$  (Consult factory for 1% & 2%)
- Coating and mark resist Trichloroethylene, Freon, And other cleaning agents.
- Improved stability, dissipation, TCR available. Consult factory.
- Lower cost alternative to carbon composition resistors.

### TEMPERATURE RISE



### DERATING CURVE



### DIMENSIONS(mm)



Type	Small Size	Dimension				Standard Tape	Standard Package
		L	D	H	d		
MOR25	MOR50M	6.5 ± 0.5	2.5 ± 0.5	20	0.5 ± 0.05	T52	5000
MOR50S		8.5 ± 0.5	2.5 ± 0.5	20	0.6 ± 0.10	T52	5000
MOR50	MOR100S	9 ± 1	4 ± 1	20	0.7 ± 0.05	T52	2500
MOR100	MOR200S	11 ± 1	4.5 ± 0.5	30 ± 3	0.8 ± 0.10	T73	2000
MOR200	MOR300S	16 ± 1	5.0 ± 0.5	30 ± 3	0.8 ± 0.05	T73	1000
MOR300	MOR500S	18 ± 1	6 ± 1	30 ± 3	0.8 ± 0.05	T73	1000
MOR500		25 ± 1	8.5 ± 1	30 ± 3	0.8 ± 0.05	T73	1000*

• Special tape to tape size by request

\* Ammo only

### SPECIFICATIONS

Test Items	Condition	MOR25	MOR50(S)(M)	MOR100(S)	MOR200(S)	MOR300(S)	MOR500(S)
Rating Wattage	at 70°C	1/4W	1/2W	1W	2W	3W	5W
Resistance Temp. Coef.	-55°C ~ +200°C	200PPM/°C	200PPM/°C	200PPM/°C	200PPM/°C	200PPM/°C	200PPM/°C
Short Time Overload	2.5X if rated voltage for 5 sec. AC or DC	±1%	±1%	±1%	±1%	±1%	±1%
Voltage Withstanding	700V AC 1 min.	No Change	No Change	No Change	No Change	No Change	No Change
Insulation Resistance	500V megger	100,000MΩ	100,000MΩ	100,000MΩ	100,000MΩ	100,000MΩ	100,000MΩ
Temp. Cycle	-30°C ~ 85°C, 5 Cycles	±1%	±1%	±1%	±1%	±1%	±1%
Load Life	70°C on-off cycles 1000 hrs.	±3%	±3%	±3%	±3%	±3%	±3%
Moisture-proof Load Life	70°C on-off cycles 1000 hrs.	±3%	±3%	±3%	±3%	±3%	±3%
Incombustibility	10X of rated wattage for 5 min.	No Flame	No Flame	No Flame	No Flame	No Flame	No Flame
Max. Working Voltage		250V	250V	350V	350V	500V	750V
Max. Overload Voltage		500V	500V	600V	600V	800V	1000V
Resistance Range		0.22 - 33K	0.5 - 33K	0.5 - 1M	0.5 - 1M	0.5 - 1M	0.5 - 100K

•Cement body types are available (MSQ). See page C2DC01.

### PART NUMBER EXAMPLE

MOR 50 R - 10K - J