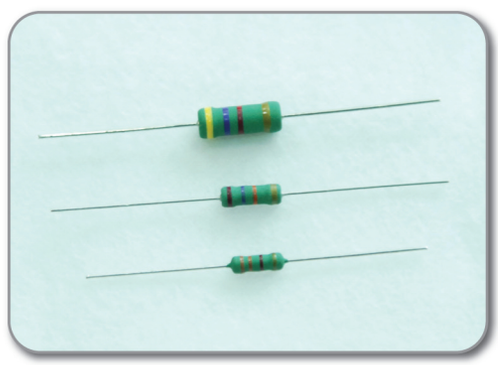
MOR series

Metal Oxide Film Resistors

Metal Oxide Film Resistors are plated with Metal Oxide Film on ceramic rod and then is coated with silicon paint. They are ideally suitable for power circuit use.

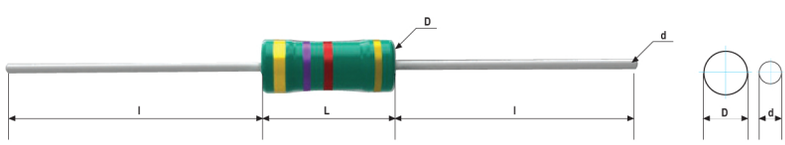
Feature

- Highly stable against environmental conditions and overload
- Suitable to pulse circuit. (Power type resistors)
- Excellent mechanical and thermal shock at a high temperature
- Flame proof overload owing to the flame resistant coating
- Miniature size (MORS 1W,2W,3W) (MORSS 1W,2W) result in 50% space saving
- Coating Color : Silicon
- MOR (Standard) : Blue (MOR 1/2W,1W,2W)
- MORS (Mini) : Green (MORS 1W,2W,3W MORSS 1W,2W)
- Making : Color Coding
- Available Type : TC, TB, TR, TT, MB, MD, RP, RB (please refer to 'Reference 1. Type')



Description

MORS	2W	TC	47K	J
Product Code	Power Rating	Shape	Nominal Resistance	Resistance Tolerance



Dimension

Type	Dimension (mm)			
	L	D	l	d
MOR 1/2W	9.0±1.0	3.5±0.5	25.0±1.0	0.70±0.05
MORSS 1W	6.4±0.2	2.4±0.2	26.0±1.0	0.58±0.05
MORS 1W	9.0±1.0	3.5±0.5	25.0±1.0	0.70±0.05
MOR 1W	11.0±1.0	4.0±0.5	30.0±1.0	0.70±0.05
MORSS 2W	9.0±1.0	3.5±0.5	25.0±1.0	0.70±0.05
MORS 2W	11.0±1.0	4.0±0.5	30.0±1.0	0.70±0.05
MOR 2W	15.0±1.0	5.5±0.5	28.0±1.0	0.80±0.05
MORS 3W	15.0±1.0	5.5±0.5	28.0±1.0	0.80±0.05

※Specifications given herein are changeable under to discuss with user and maybe changed at anytime without prior notice.

Rating

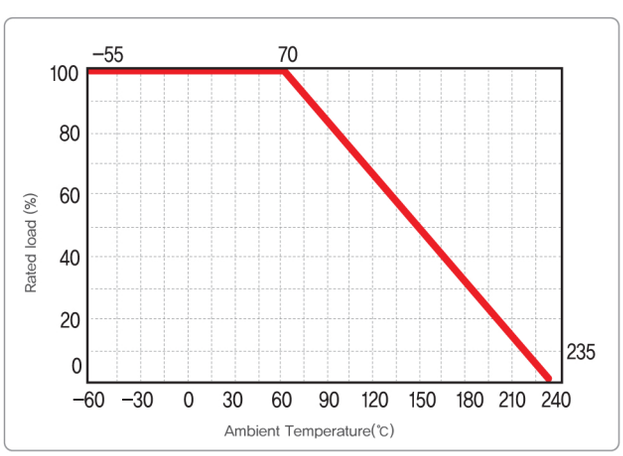
Type	Power Rating(W)	Max Working-Voltage(V)	Max Overload Voltage(V)	Dielectric Withstanding Voltage(V)	Operating Temp.(℃)	Resistance Range(Ω)	Resistance Tolerance (%)
MOR 1/2W	1/2	250	400	350	-55 ~ +235	0.0 ~ 1M	J :±5 F :±1 G :±2
MORSS 1W	1	350	600	600			
MORS 1W	1	350	600	600			
MOR 1W	1	350	600	600			
MORSS 2W	2	350	600	600			
MORS 2W	2	350	600	600			
MOR 2W	2	350	600	600			
MORS 3W	3	550	800	600			

※ Other than those listed above resistance tolerance is ever set in consultation with the user side.

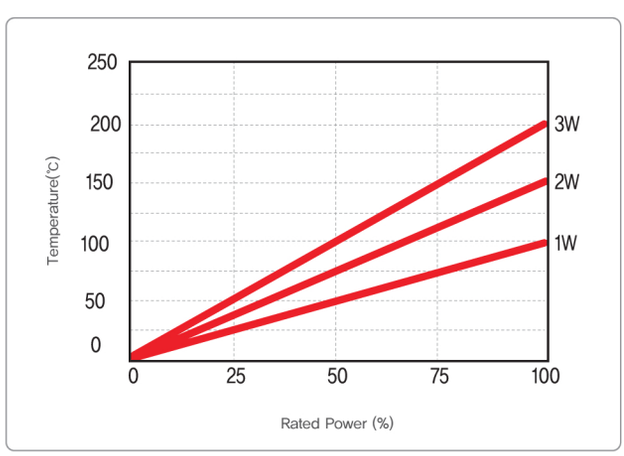
Performance

Test Items	Performance Requirements	Test Methods
Resistance	With specified tolerance	Measure resistance at 25℃
Short Time Over Load	With specified value	+25℃ / +125℃
Temperature Coefficient Resistance	±350PPM /℃	Rated voltage x 2.5 for 5sec Max overload voltage
Resistance Against Soldering Test	±1%	260 ±3℃, 2~2.5mm, 5±1sec measure resistance After 1hr at room temp
Load Life in Temperature	±5%	40±2℃,90~95% RH, 1.5hr ON/0.5hr OFF, 120hr
Load Life in Moisture	±5%	70±2℃, 1.5hr ON/0.5hr OFF, 120hr

Derating Curve



Surface Temperature Rise



※Specifications given herein are changeable under to discuss with user and maybe changed at anytime without prior notice.