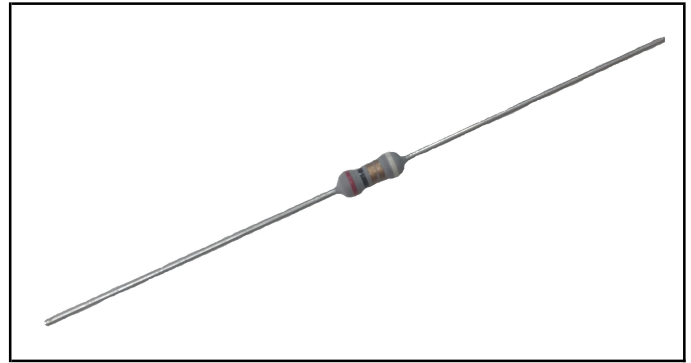


# Fusible Metal Film Resistor - FMF-fusible series

## FEATURES

- Power Rating: 1/4W to 2W at 70°C
- Superior electrical performance
- Standard T.C.R : ±100PPM
- Tolerance: ±1% , 5%
- Standard Value: 10R-1Meg in E24/E96 series
- Body Color: gray
- Flameproof coating
- Mini size available (As FMF-S type)
- Operating Temperature : -55°C ~+155°C

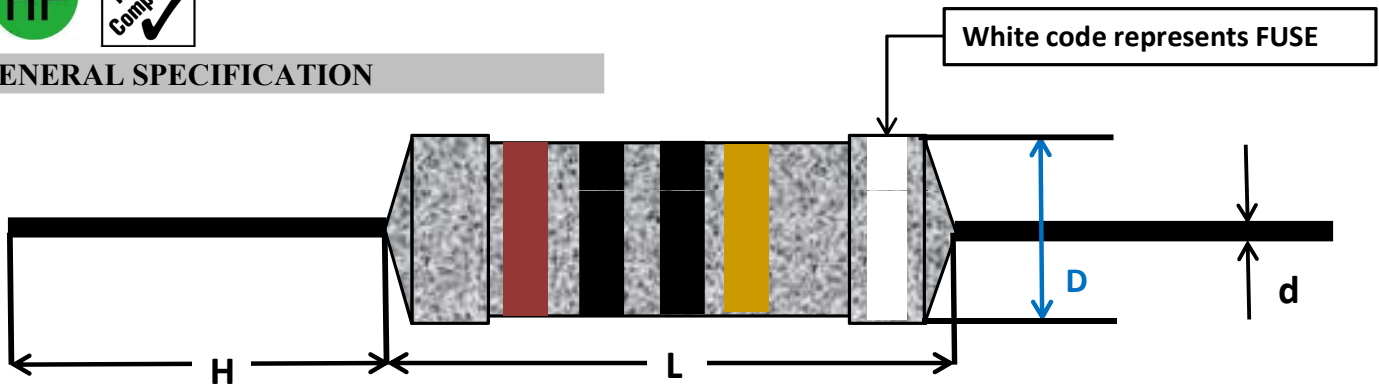


## MATERIAL

- Element: Vacuum-deposited Ni-Cr Alloy
- Core: High purity ceramic Al<sub>2</sub>O<sub>3</sub>
- Termination: Standard solder-plated cooper lead
- Coating: Silicone



## GENERAL SPECIFICATION



Normal size								
TYPE	DIMENSION (mm)				POWER	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE
	L	D	H	d				
1/4W	6.0±0.5	2.3±0.3	27 ±3.0	0.55± 0.05	1/4W	250V	500V	1Ω~1MΩ
1/2W	9.0±0.5	3.0±0.5	27 ±3.0	0.59±0.05	1/2W	350V	700V	1Ω~1MΩ
1W	11±2.0	4.0±1.0	33 ±3.0	0.8± 0.05	1W	500V	1000V	1Ω~1MΩ
2W	15±2.0	5.0±1.0	33 ±3.0	0.8± 0.05	2W	500V	1000V	1Ω~1MΩ

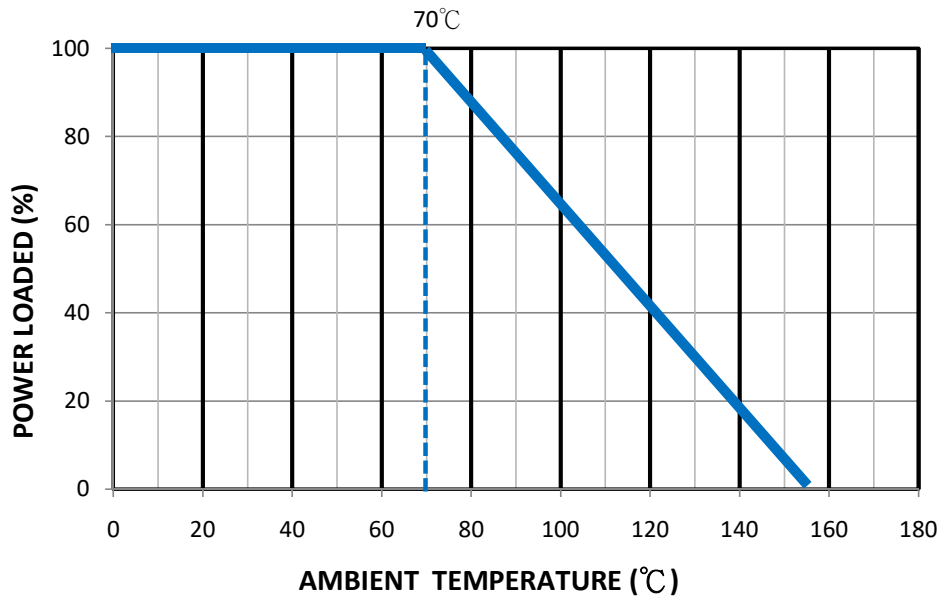
Smallize								
TYPE	DIMENSION (mm)				POWER	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE
	L	D	H	d				
1/2WS	6.0±0.5	2.3±0.3	27 ±3.0	0.55± 0.05	1/2W	250V ★	500V ★★	1Ω~1MΩ
1WS	9.0±0.5	3.0±0.5	27 ±3.0	0.59±0.05	1W	350V	700V	1Ω~1MΩ
2WS	11±2.0	4.0±1.0	33 ±3.0	0.8± 0.05	2W	500V	1000V	1Ω~1MΩ
3WS	15±2.0	5.0±1.0	33 ±3.0	0.8± 0.05	3W	500V	1000V	1Ω~1MΩ

\* Maximum Working Voltage determined by  $E = \sqrt{P \times I}$  where E should not exceed value listed in column above.

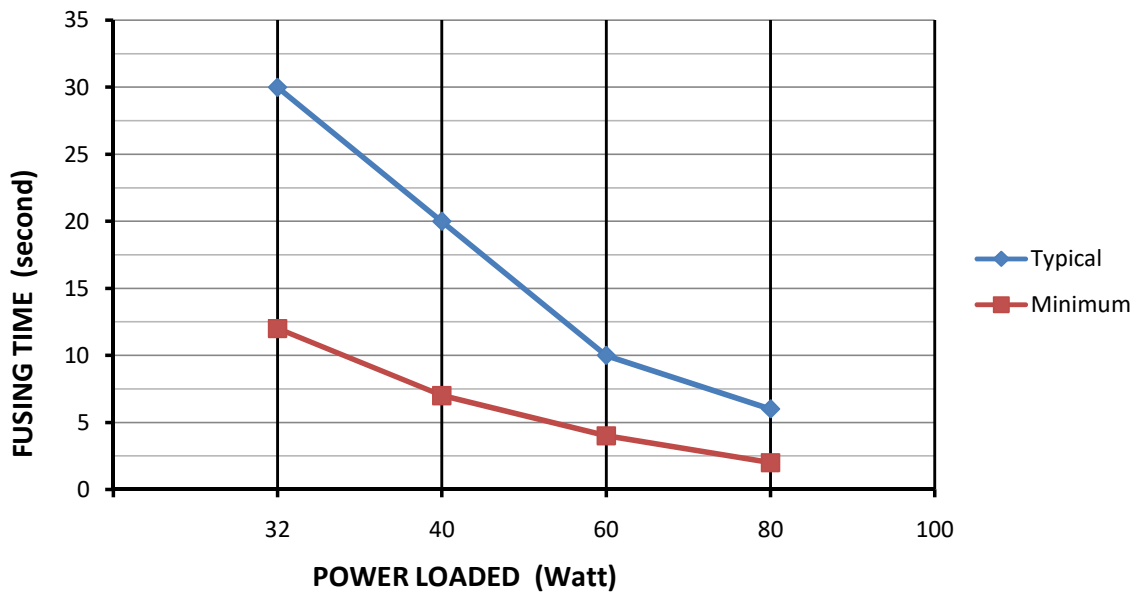
\*\* Maximum Overload Voltage equals to 2xE, but should not exceed value listed in column above

\*\*\* Consult factory for resistance is not included in the column

## DERATING CURVE



## FUSING TIME - FUSE 2WS 27R



## CHARACTERISTIC

TEST	TEST METHOD	APPRAISE
Temperature Coefficient	IEC 60115-1 4.8 -55°C~155°C	By type
Load Life (1000 hours)	IEC 60115-1 4.25 70±2°C at RCWV for 1000 hours (1.5 Hr. on , 0.5 Hr. off)	<±5%+0.05 Ω
Shorttime Overload	IEC 60115-1 4.13 2 times rated power for 5 sec.	<±2%+0.05 Ω
Temperature Cycling	IEC 60115-1 4.19 -55°C → room temp. → +155°C → room temp. (5 cycles)	<±5%+0.05 Ω
Moisture Resistance	IEC 60115-1 4.24 40±2°C , 90-95% RH for 56 days , with 0.1 times RCWV	<±0.5%+0.05 Ω
Solderability	IEC 60115-1 4.17 235±5°C for 3±0.5 sec.	95% min. coverage
Effect of Soldering	IEC 60115-1 4.18 260±3°C for 10±1 sec. immersed to point 3±0.5mm from the body	<±0.2%+0.05 Ω

**HOW TO ORDER :**

<u>SERIES</u>	<u>WATTAGE</u>	<u>RESISTANCE</u>	<u>TOLERANCE</u>	<u>PACKAGE</u>	<u>TCR</u>	<u>CHARACRISTIC</u>
<b>FMF</b>	1/4W 1/2WS : 3WS	0R1=0.1Ω 10R=10Ω 1K=1KΩ	1% 5%	T=TAPING BOX R=TAPING REEL B=BULK	100ppm 50ppm :	<b>FUSIBLE</b>

**PACKAGE STANDARD PACKAGE QUANTITY :**

TYPE	T=TAPING BOX	R=TAPING REEL	B=BULK
1/4W-1/2WS	5000	5000	1000 pcs/bag , 10kpcs/box
1/2W-1WS	2000	2500	500 pcs/bag , 5kpcs/box
1W-2WS	1000	2000	500 pcs/bag , 2kpcs/box
2W-3WS	1000	1000	500 pcs/bag , 1kpcs/box