

保險絲晶圓電阻

FRM - Type  
MELF Fusible Resistor

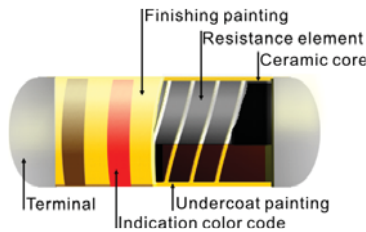
□ FEATURE

- ◆ Advanced Metal film technology.
- ◆ High Power 0.5W (1WS)
- ◆ Force fitted steel caps, tin plated on nickel barrier.
- ◆ Pure Sn termination on Ni barrier layer.
- ◆ Compatible with lead (Pb)-free and lead containing soldering processes.
- ◆ Lead (Pb)-free and RoHS compliant .

□ Applications

- ◆ Military
- ◆ Automotive
- ◆ Telecommunication
- ◆ Medical equipment.
- ◆ Avionics
- ◆ Space
- ◆ Others

□ CONSTRUCTION



FIGURE



Coating Color: Grey  
Marking: Color Bands  
\* E-24 Series (3 Bands)

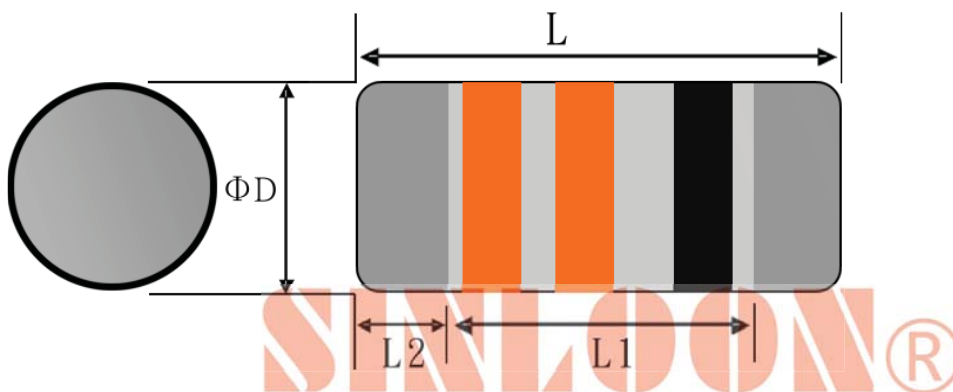
□ ORDERING INFORMATION

Example: US-FRM07J10R0

Power	Size	Type	Tolerance	Resistance	Packing
1/4W	0207	V-FRM07	J = ±5%	R33 = 0R33	2K Reel
1/2WS	0207	US-FRM07		1R = 1R00	
1/2W	0207	U-FRM07		10R=10R0	
1WS	0207	SS-FRM07		100R=100R 1K = 1001	

□ DIMENSION


Power	Size	Type	L	Φ D	L1	L2
1/4W	0207	V-FRM07	5.70 ±0.20	2.20 ±0.15	4.90 ±0.05	0.80 ±0.20
1/2WS	0207	US-FRM07				
1/2W	0207	U-FRM07				
1WS	0207	SS-FRM07				



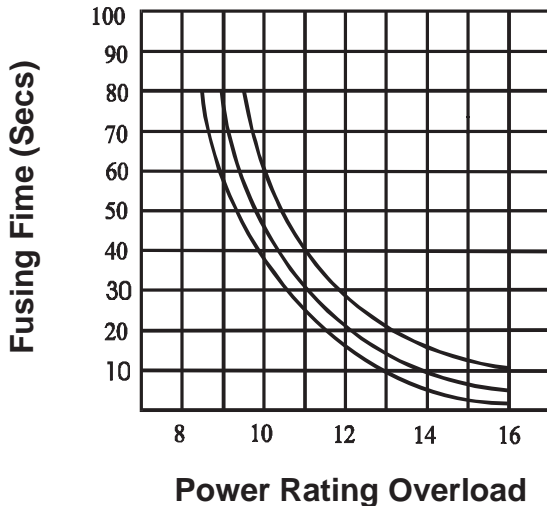
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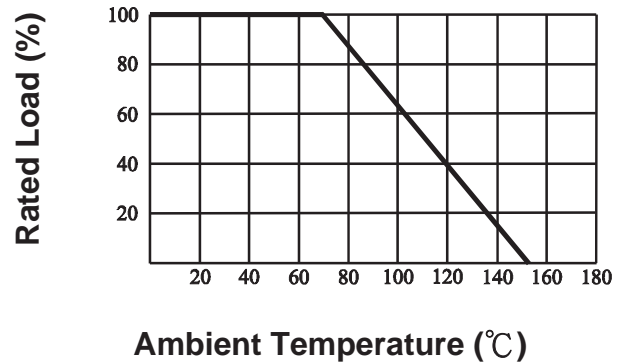
GENERAL ELECTRICAL SPECIFICATION

Power	Size	Type	Magnification Of Power Rating			Fusing Time	Figure
			x 30	x 25	x 16		
1/4W	0207	V-FRM07	≤ 0R47	≤ 0R47 ~ 0R99	1R ~ 1K	60 Sec (Max)	
1/2WS	0207	US-FRM07	≤ 0R47	≤ 0R47 ~ 0R99	1R ~ 1K		
1/2W	0207	U-FRM07	≤ 0R33	≤ 0R33 ~ 1R20	1R2 ~ 1K		
1WS	0207	SS-FRM07	≤ 0R33	≤ 0R33 ~ 1R20	1R2 ~ 1K		

Fusing Characteristics



Power Daring Curve



- \* The above power rating and fusing time for standard fusible resistors, other spec. on request
- \* Working voltage =  $\sqrt{\text{Power Rating} \times \text{Resistance}}$  °
- \* Fusing voltage =  $\sqrt{\text{Power Rating} \times \text{Resistance} \times \text{Fusing Multiplier}}$  °

Characteristics

Item	Characteristics	Test Method
1. Operating Temp. Range 使用溫度範圍	-55°C ~ 155°C	
2. Temperature Coefficient 溫度系數	±200 ppm/°C	JIS-C-5202; 5.2
3. Short time overload 短時間過負載	±2%	Rating voltage×2.5 or Max. overload voltage For 5 sec. Whichever less
4. Resistance to soldering heat 焊接耐熱性	±2%	260°C ±5°C, 5 sec ± 1 sec
5. Insulation Resistance 絕緣電阻	Over 10 <sup>3</sup> MΩ	JIS-C-5202 ; 5.6-條件A
6. Load Life in Humidity 耐濕負載	±5%	40°C ±2°C, 90%~95%RH, 1000h, 1.5h "on"/ 0.5h "off" cycle
7. Load Life 壽命負載	±5%	70°C ±2°C, 1000h, 1.5h "on"/ 0.5h "off" cycle
8. Solderability 焊接性	90% Coverage/Min	235°C ±5°C, 2 sec ± 0.5 sec
9. Bending test 端子強度	±1%	Holding point width 90mm, Bending 5mm, 1 time
10. Non-Combustibility 不燃性	The resistors shall withstand Overload test in accordance With Article UL-94, V-0 without producing a fire hazard.	







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□ PACKAGE SPECIFICATION

Power	Size	Type	Quantity(ea)			SINLOON®
			Paper Reel Tape	In Box	Carton	
1/4W	0207	V-FRM07	2000 pcs	7" Reel	20K	120K pcs
1/2WS	0207	US-FRM07				
1/2W	0207	U-FRM07				
1WS	0207	SS-FRM07				

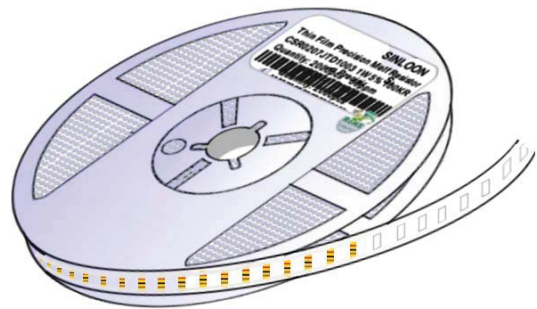
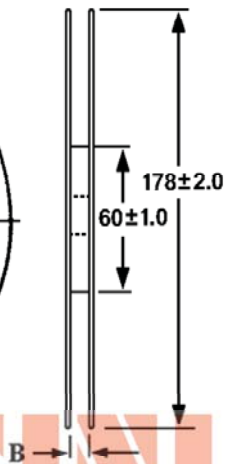
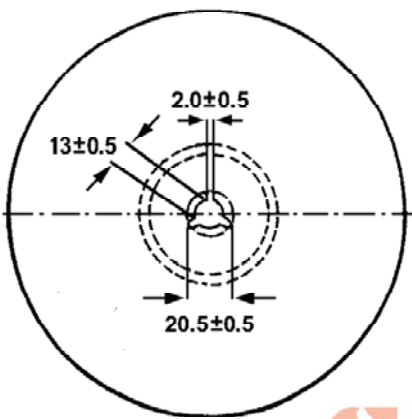
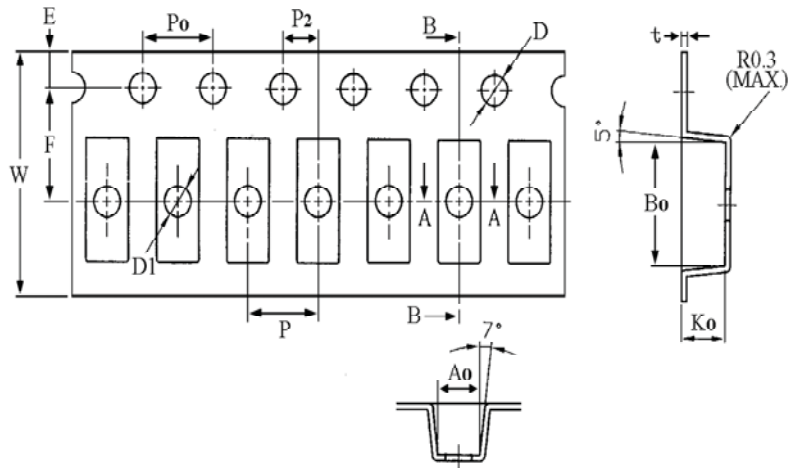






品質承諾標誌  
**QUALITY COMMITMENT**

Unit: mm

SIZE	MELF
	0207
W	12.00±0.10
P	4.00±0.10
E	1.75±0.10
F	5.50±0.05
P2	2.00±0.05
D	1.50±0.10
D1	1.50±0.10
Po	4.00±0.10
B	12.00±0.50
Ao	2.40±0.10
Bo	6.05±0.10
Ko	2.50±0.10
t	0.30±0.05



\* Mayloon characteristic parameters of electronic product specification changes or updates without prior notice .