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# SPECIFICATIONS

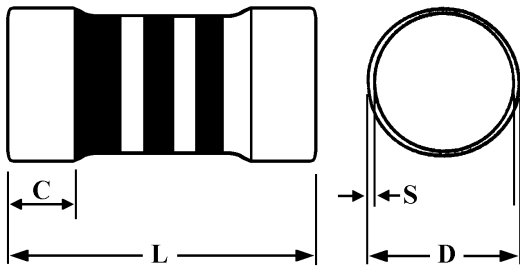
MELF Metal Film Resistors

**MFM 0102-Serie**

Version September 2017

# MELF Metal Film Resistors

## M-TYPE



Coating Color : Blue.

Marking : Color Bands.(3 bands)

1<sup>ST</sup> = Number,

2<sup>ND</sup> = Number,

3<sup>RD</sup> = Multiplier.

### Dimensions :

Type	Size	Dimensions (mm)			
		L	D	C	S
MFM	0102	2.0±0.1	1.3±0.1	0.55±0.1	0.1±0.05

### Range :

SIZE	POWER RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	T.C.R.	RESISTANCE RANGE		
					±1%	±2%	±5%
0102	1/8Ws	150V	200V	±15ppm;±25ppm ±50ppm;±100ppm	100Ω~1M	1Ω~1M	0.22Ω~2M

### Characteristics

Item	Characteristics	Test Method
1. Operating Temp. Range	-55°C ~ 155°C	
2. Temp. Coefficient	±15ppm;±25ppm ±50ppm;±100ppm	JIS-C-5202; 5.2
3. Short time overload	±(0.5%+0.05Ω)	JIS-C-5202; 5.5
4. Pulse overload	±(0.5%+0.05Ω)	JIS-C-5202; 5.8
5. Temperature cycling	±(0.5%+0.05Ω)	JIS-C-5202; 7.4
6. Load Life in Humidity	±(1%+0.05Ω)	JIS-C-5202; 7.9
7. Load Life	±(1%+0.05Ω)	JIS-C-5202; 7.10
8. Resistance to soldering heat	±(0.5%+0.05Ω)	JIS-C-5202; 6.4
9. Solderability	90% Coverage/Min	JIS-C-5202; 6.5
10. Non-Combustibility	No evidence of flaming	UL-94 ; V-0

# MELF Metal Film Resistors

## M-TYPE



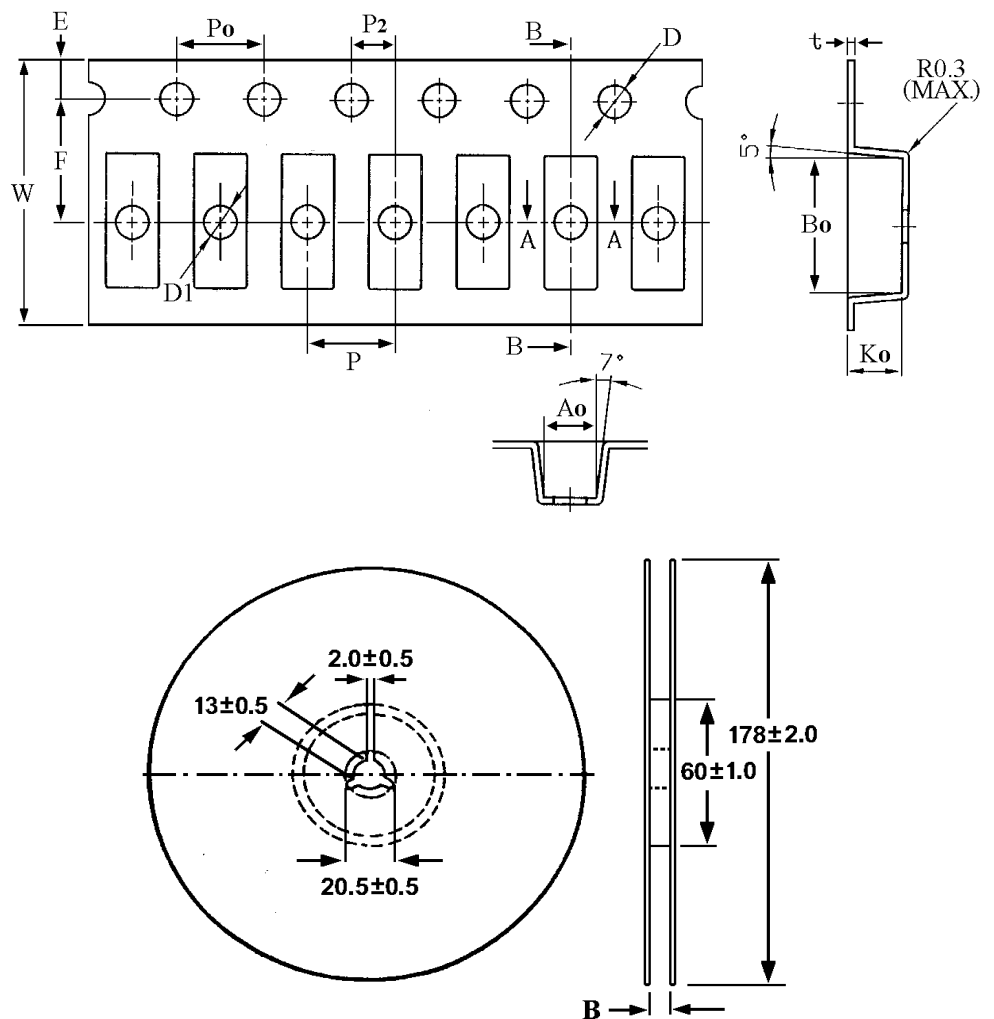
### Classification

<u>MFM</u>	<u>0102</u>	<u>1/8Ws</u>	<u>121R</u>	<u>F</u>	<u>T</u>
STYLE	SIZE	POWER	RESISTANCE	TOLERANCE	PACKING
				F = ±1%	T = Tape/Reel
				G = ±2%	
				J = ±5%	

### Packaging

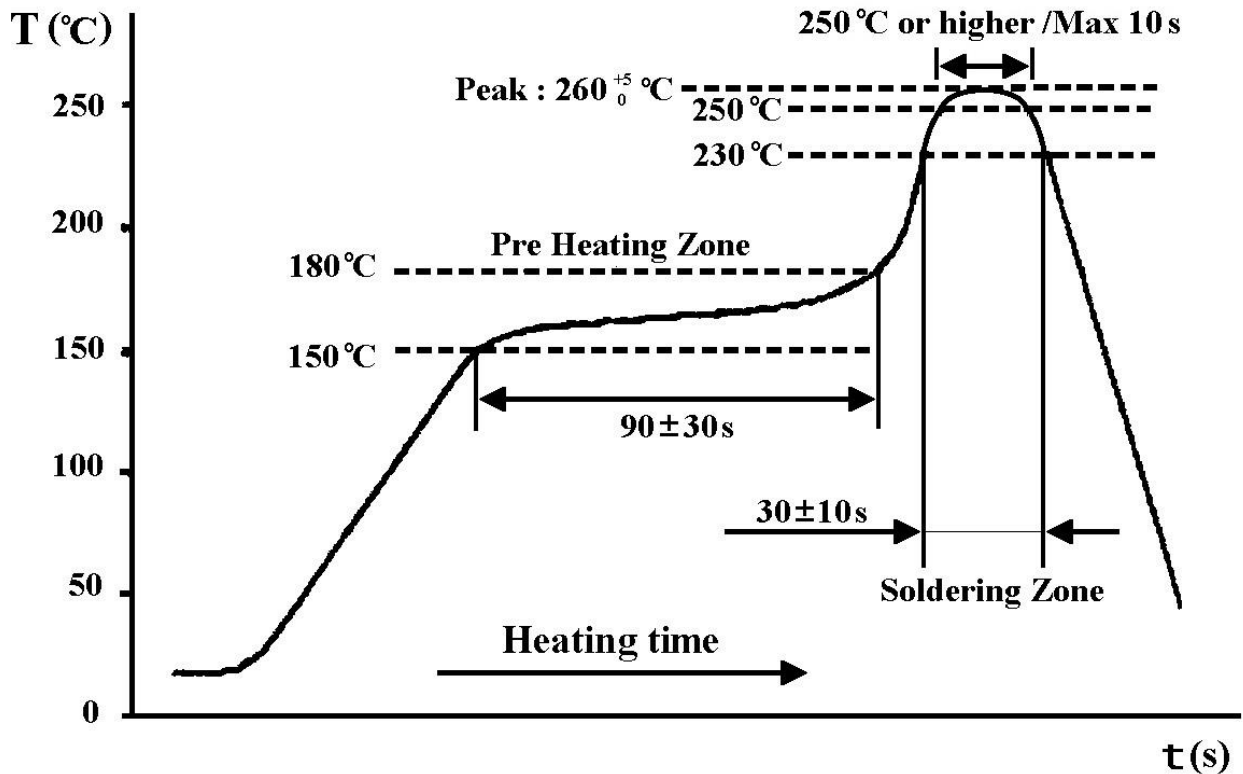
SIZE	TAPE / REEL
0102	3000pcs

TYPE	M-Type
SIZE	0102
W	8.00±0.10
P	4.00±0.10
E	1.75±0.10
F	3.50±0.05
P2	2.00±0.05
D	1.50±0.10
D1	1.00±0.10
Po	4.00±0.10
B	8.00±0.50
Ao	1.50±0.10
Bo	2.20±0.10
Ko	1.50±0.10
t	0.22±0.05



焊錫曲線(Soldering Profile)

Soldering Temperature Curve



IR Reflow Soldering

適用設備：

本公司產品使用低溫製程，適用於 IR Reflow(迴焊爐)表面黏著設備；比較不適用 Wave Soldering(波峰焊)，可能會有保護層及正導脫落，而造成阻值漂移之風險。

Equipments Applicable

Our company's products are produced under low temperature processing applicable to IR reflow surface mounting devices. It is comparatively not applicable to wave soldering which will have the possibility of the risk ablating the element protection layer and the front conductor that shall cause the drift of the resistance value.