



承認書

SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

WIRE WOUND CHIP INDUCTOR

PART NO:

MWI1812IF系列

CUST. PART NO:

REV. NO.

A0

DRAWING		
PREPARED	CHECKED	APPROVED
邹声平	卢嘉良	曾凡强
DATE:	2025/5/5	

CUSTOMER APPROVE

DDY® 德立电子&铭易轩

东莞市铭易轩电子科技有限公司

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MODIFY RECORD 变更履历

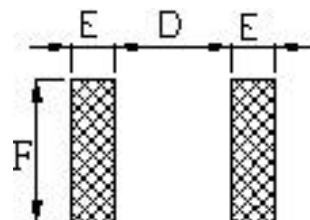
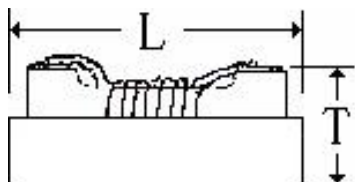
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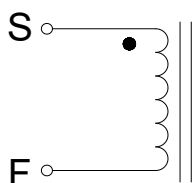
1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

L	W	T	E	F	D
4.95 Max.	3.85 Max.	3.43 Max.	1.14 Typ.	3.05 Typ.	3.0 Typ.

2. SCHEMATIC



3. PART NUMBERING SYSTEM

MWI	1812	IF	1R0	K	S	T	-	HF
1	2	3	4	5	6	7		8

- 1 PRODUCT SYMBOL (产品代号)
- 2 DIMENSIONS (规格尺寸)
- 3 MATERIAL (芯片类型)
- 4 INDUCTANCE (电感量)
- 5 TOLERANCE (公差) : J $\pm$ 5%; K $\pm$ 10%; M $\pm$ 20%
- 6 TERMINAL (端电极材料) : S-锡端头;
- 7 PACKAGING (包装方式) : T-编带盘装; B-散装
- 8 E.P. (环保) : LF—Lead Free HF—Halogen Free FP—Red Phosphor Free

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Test Freq	Q	SRF	Rdc	Irms	Tolerance
		(μ H)	(MHz)	Min.	(MHz)Min.	(Ω) Max.	(mA) Max.	
1	MWI1812IF1R0□ST-HF	1	7.9	25	250.0	0.45	600	K,M
2	MWI1812IF2R2□ST-HF	2.2	7.9	25	200.0	0.50	600	K,M
3	MWI1812IF4R7□ST-HF	4.7	7.9	25	100.0	0.60	600	K,M
4	MWI1812IF6R8□ST-HF	6.8	7.9	25	80.0	0.80	600	K,M
5	MWI1812IF100□ST-HF	10	2.5	20	50.0	1.10	490	K,M
6	MWI1812IF120□ST-HF	12	2.5	20	55.0	1.10	490	K,M
7	MWI1812IF150□ST-HF	15	2.5	18	35.0	1.20	450	K,M
8	MWI1812IF180□ST-HF	18	2.5	18	29.0	1.20	430	K,M
9	MWI1812IF220□ST-HF	22	2.5	18	20.0	1.30	400	K,M
10	MWI1812IF330□ST-HF	33	2.5	18	18.0	1.70	350	K,M
11	MWI1812IF470□ST-HF	47	2.5	18	24.0	5.00	200	K,M
12	MWI1812IF101□ST-HF	100	1	15	2.5	5.90	130	K,M
13	MWI1812IF221□ST-HF	220	1	12	5.0	15.00	100	K,M
14	MWI1812IF561□ST-HF	560	1	10	1.8	12.50	110	K,M
15	MWI1812IF681□ST-HF	680	1	10	3.0	30.00	50	K,M
16	MWI1812IF102□ST-HF	1000	1	10	1.0	20.00	50	K,M

□:表示产品公差

Test remarks

- (1). All test data is referenced to 25 °C ambient.
- (2). Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}\text{C}$) from 25°C ambient.

5. GENERAL SPECIFICATION

- (1). Operating temp.: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (Including self-generated heat).
- (2). Storage temp.: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ R.H.:60% Max.
- (3). Moisture sensitivity level (MSL) 1
- (4). Recommended products should be used within 12 months from the date of delivery
- (5). The part temperature (ambient + temp rise) should not exceed 85°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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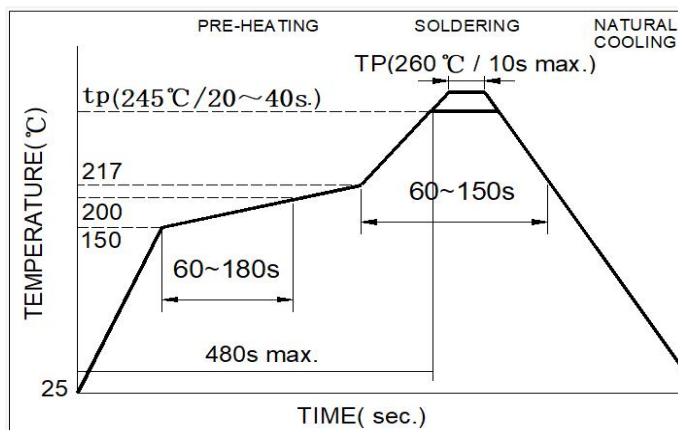


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6. SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



Note:

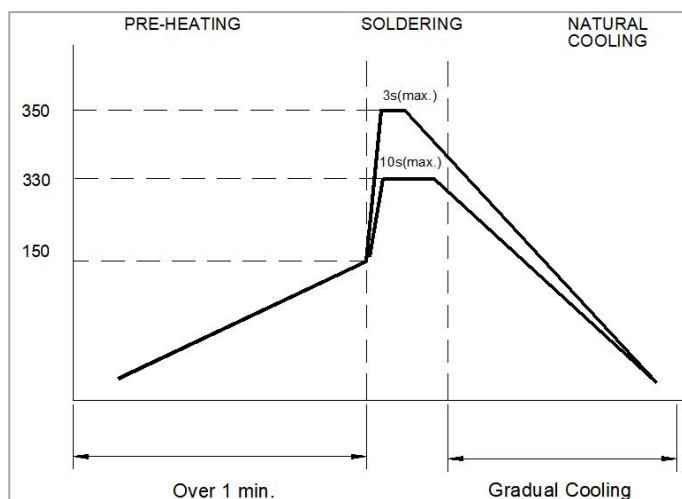
Preheat circuit and products to 150°C

260°C tip temperature (Max)

Reflow times: no more than 2 times

Solder paste thickness: the best 0.08mm is ,but max is 0.1mm

Figure 2. Hand Soldering



Note:

Use a 20 watt soldering iron with tip diameter of 1.0mm

Limit soldering time to 3 sec.

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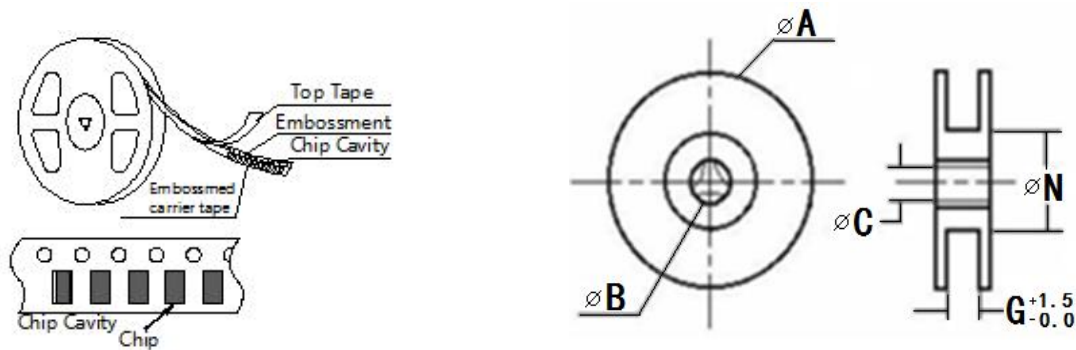


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7. PACKAGE SPECIFICATION

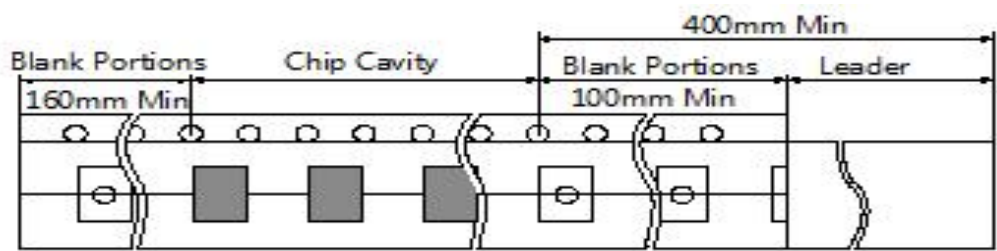
TAPING DRAWINGS



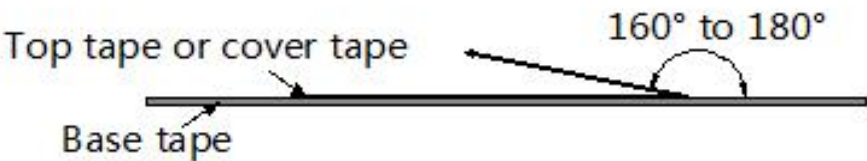
REEL DIMENSIONS(UNIT:mm)

	A	B	C	N	G
CF-12	178±2.0	22±2.0	12.5±1.0	57.0±1.0	12

LEADER AND BLANK PORTION



PEELLING OFF FORCE:0.05 to 0.7N in the direction show below.



每卷:500 PCS

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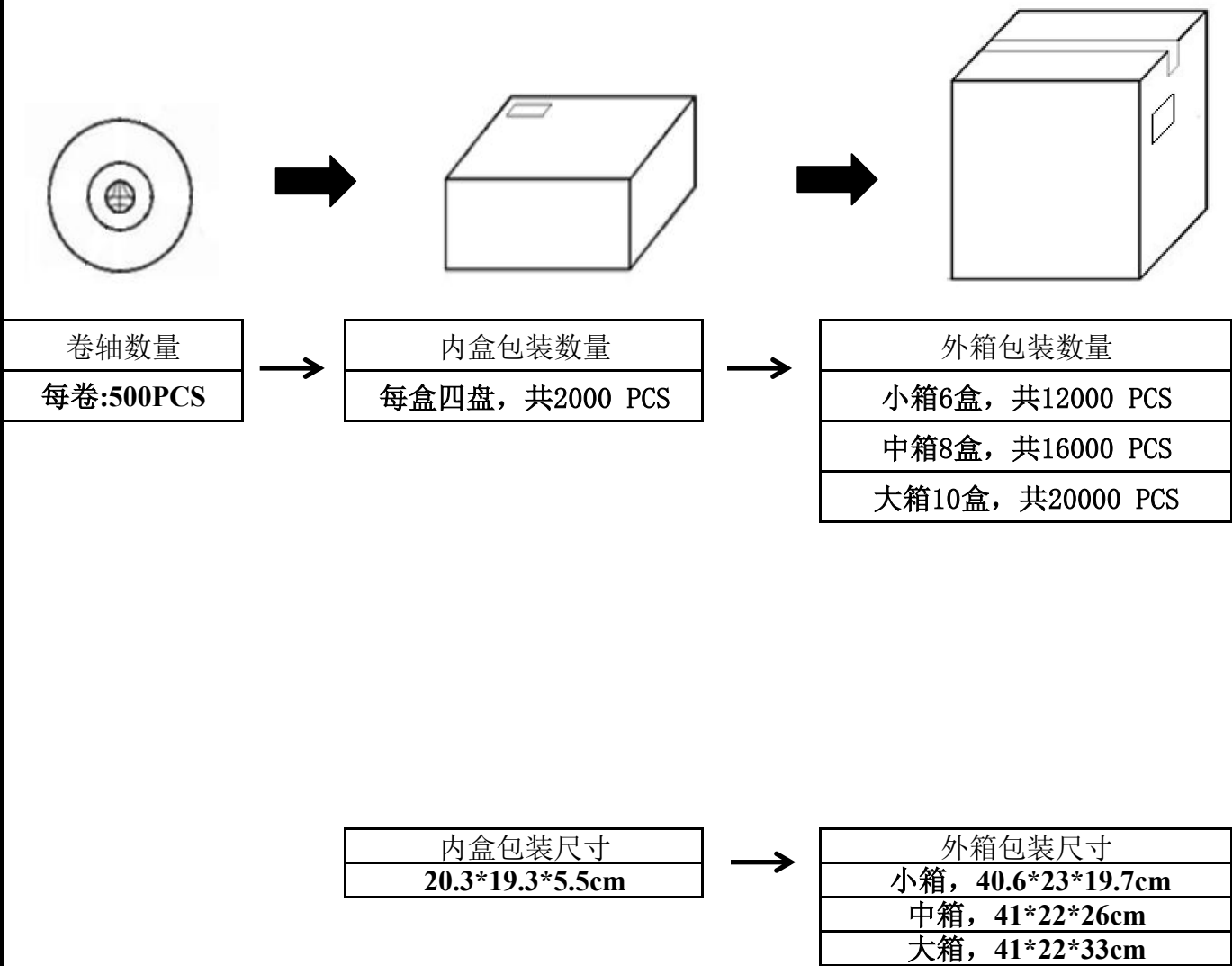


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8. Package Specifications

Inside Box And Outside Carton



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