



承認書

SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

WIRE WOUND CHIP INDUCTOR

PART NO:

MWI0402IF 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

 **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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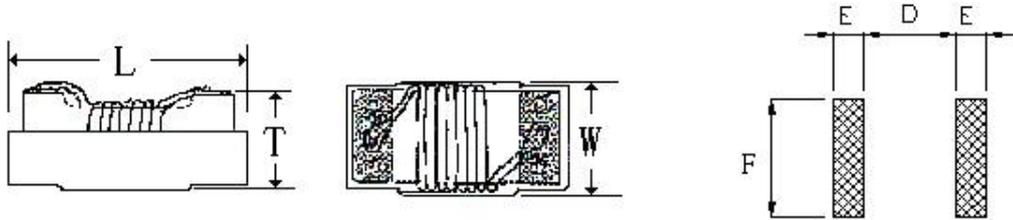
网址: <http://www.dgmingyixuan.com>



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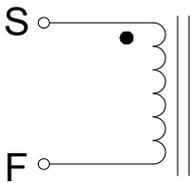
1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

L	W	T	E	F	D
1.19 Max.	0.7 Max.	0.64 Max.	0.36 Max.	0.66 Typ.	0.46 Typ.

2. SCHEMATIC



3. PART NUMBERING SYSTEM

MWI	0402	IF	R47	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±5%; K±10%; M±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	Freq	SRF	Rdc	Irms	Isat	Tolerance
		(nH)	(MHz)	(MHz)Min.	(Ω) Max.	(mA) Max.	(mA) Max.	
1	MWI0402IF22N□ST-HF	22	7.9	2500	0.065	1300	1400	K,M
2	MWI0402IF36N□ST-HF	36	7.9	2300	0.075	1300	1400	K,M
3	MWI0402IF39N□ST-HF	39	7.9	2200	0.115	830	1200	K,M
4	MWI0402IF56N□ST-HF	56	7.9	1900	0.095	1000	1200	K,M
5	MWI0402IF75N□ST-HF	75	7.9	1600	0.15	600	1200	K,M
6	MWI0402IF78N□ST-HF	78	7.9	1600	0.13	970	1200	K,M
7	MWI0402IFR10□ST-HF	100	7.9	1400	0.16	900	1200	K,M
8	MWI0402IFR11□ST-HF	110	7.9	1000	0.2	850	1000	K,M
9	MWI0402IFR15□ST-HF	150	7.9	1220	0.26	630	1000	K,M
10	MWI0402IFR18□ST-HF	180	7.9	1150	0.28	560	1000	K,M
11	MWI0402IFR20□ST-HF	200	7.9	1000	0.44	400	1000	K,M
12	MWI0402IFR22□ST-HF	220	7.9	1150	0.53	380	1000	K,M
13	MWI0402IFR25□ST-HF	250	7.9	900	0.9	360	900	K,M
14	MWI0402IFR27□ST-HF	270	7.9	860	0.9	360	900	K,M
15	MWI0402IFR30□ST-HF	300	7.9	860	0.9	360	900	K,M
16	MWI0402IFR33□ST-HF	330	7.9	820	0.56	350	600	J,K,M
17	MWI0402IFR36□ST-HF	360	7.9	810	0.9	250	600	J,K,M
18	MWI0402IFR39□ST-HF	390	7.9	760	1.0	200	500	J,K,M
19	MWI0402IFR47□ST-HF	470	7.9	650	1.0	200	500	J,K,M
20	MWI0402IFR56□ST-HF	560	7.9	600	1.2	200	500	J,K,M
21	MWI0402IFR68□ST-HF	680	7.9	290	1.6	100	250	J,K,M
22	MWI0402IFR82□ST-HF	820	7.9	385	5.85	90	200	J,K,M
23	MWI0402IF1R0□ST-HF	1000	7.9	200	6.5	50	200	J,K,M
24	MWI0402IF2R2□ST-HF	2200	7.9	100	2.3	40	200	J,K,M

□ 表示产品公差: J±5%; K±10%; M±20%

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	SRF	Rdc	Irms	Isat	Tolerance
		(nH)	(MHz)	(MHz)Min.	(Ω) Max.	(mA) Max.	(mA) Max.	
25	MWI0402IF3R3□ST-HF	3300	7.9	80	3.6	10	200	J,K,M
26	MWI0402IF4R7□ST-HF	4700	7.9	50	4.8	10	200	J,K,M
27	MWI0402IF6R8□ST-HF	6800	7.9	50	6.1	10	200	J,K,M
28	MWI0402IF100□ST-HF	10000	1	20	8.5	10	200	J,K,M

□ 表示产品公差: J±5%; K±10%; M±20%

Test remarks

- (1). All test data is referenced to 25 °C ambient.
- (2). Isat: DC current at which inductance drops approximate 30% from its value without current,
Irms: DC current that causes the temperature rise ($\Delta T \cong 40^{\circ}C$) from 25°C ambient.

5. GENERAL SPECIFICATION

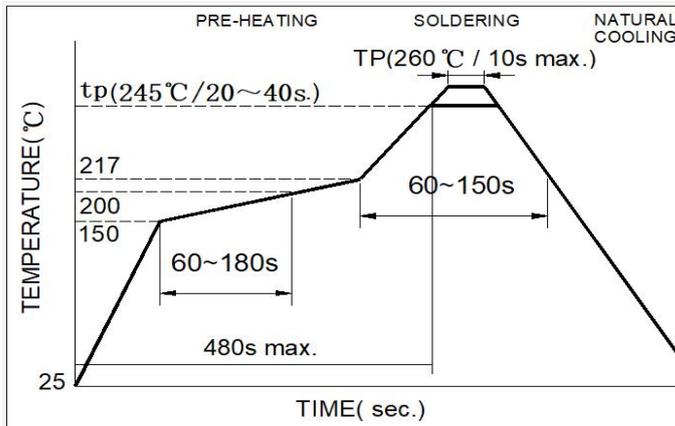
- (1). Operating temp.: -40°C ~ +85°C (Including self-generated heat).
- (2). Storage temp.: -10°C ~ +40°C R.H.:60% Max.
- (3). Moisture sensitivity level (MSL) 1
- (4). Recommended products should be used within 12 months from the date of delivery
- (5). The part temperature (ambient + temp rise) should 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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6. SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



Note:

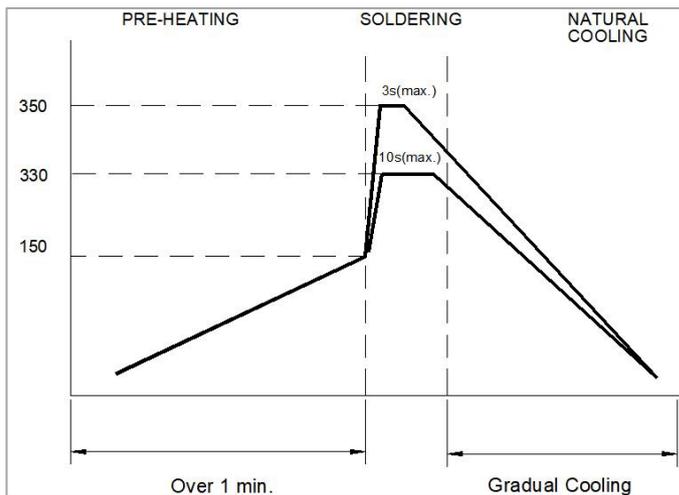
Preheat circuit and products to 150°C

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.

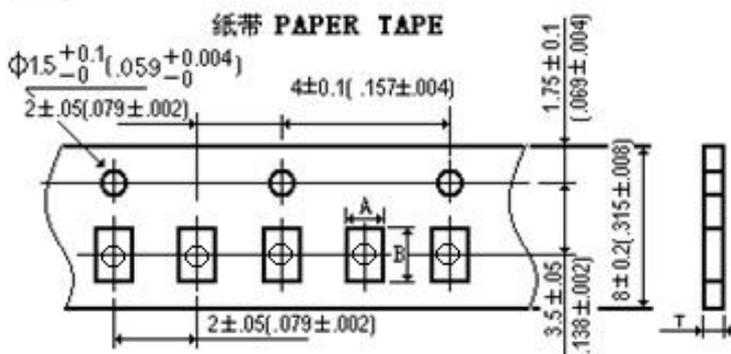
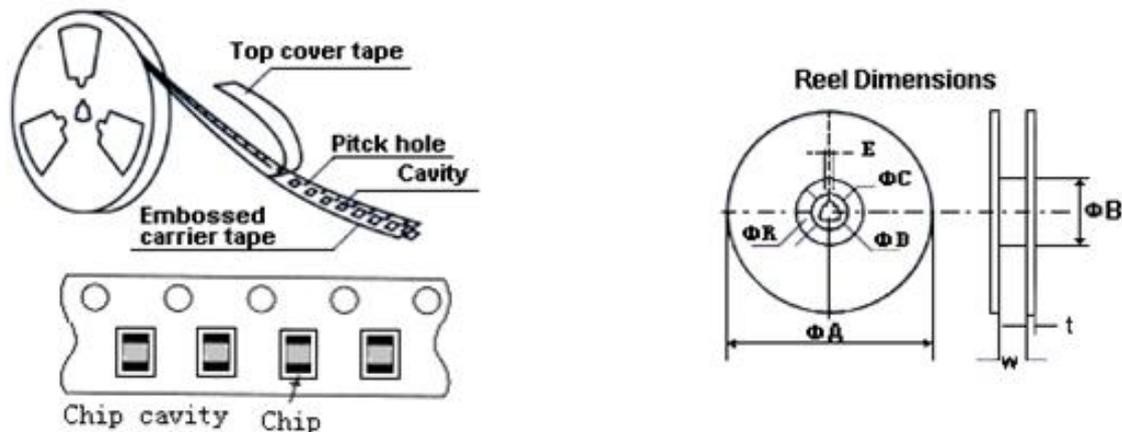
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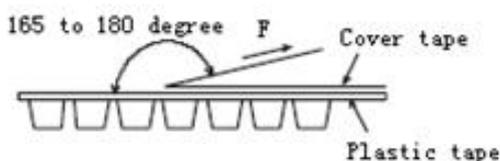
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7. PACKAGE SPECIFICATION



Peeling off force
 Pull strength
 0402~1210: 20g~80g
 Speed of peeling off:
 300mm/min \pm 10%



	A	B	T
0402纸带	0.74	1.23	0.75

Type	ΦA	ΦB	ΦC	ΦD	E	W	t
0402	178	60	13	21	2	8.4	2

包装数量(PACKAGING QUANTITY):10000Pcs/盘

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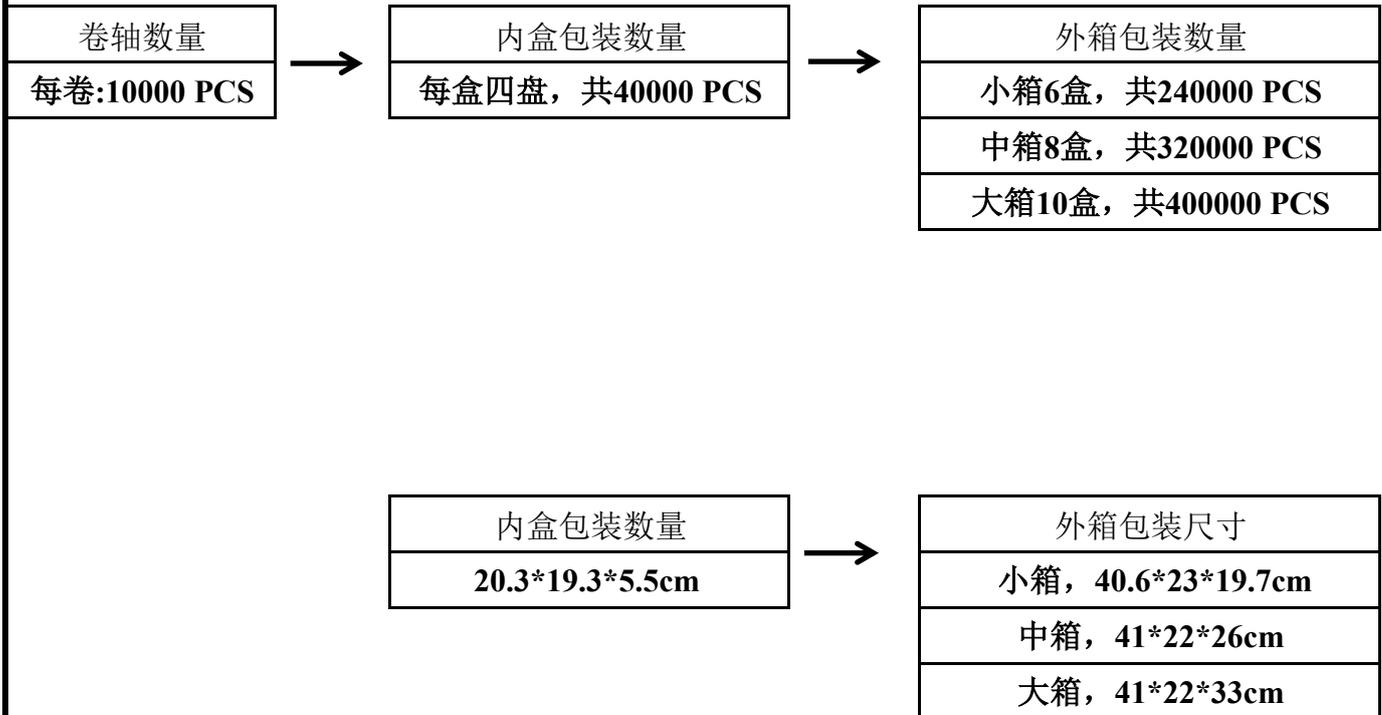
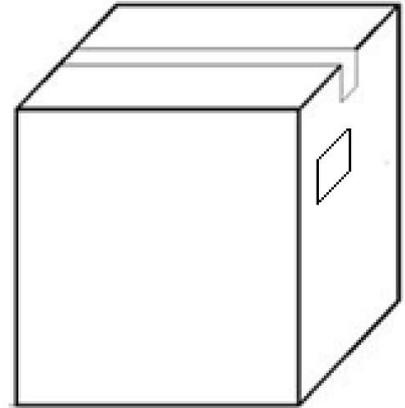
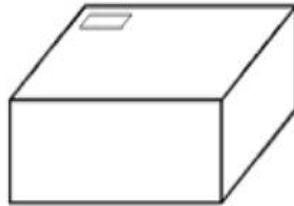
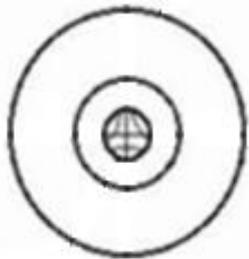


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8.Package Specifications

Inside Box And Outside Carton



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