



承認書

SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

WIRE WOUND CHIP INDUCTOR

PART NO:

MWI1008IF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

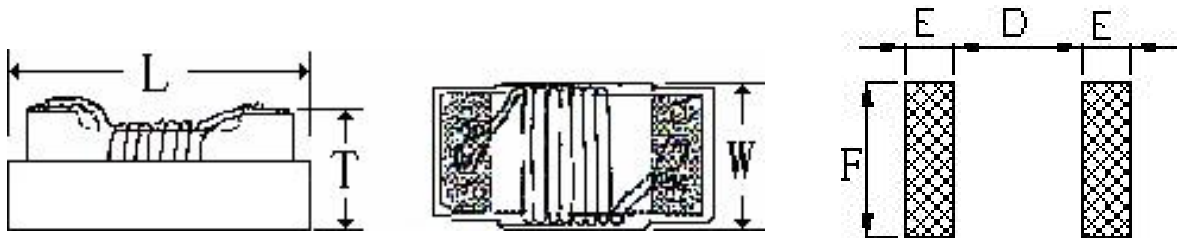
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SPECIFICATION FOR APPROVAL

CUSTOMER:		REV. NO.	A0
PART NO:	MWI1008IF系列	PAGE NO:	2/7
CUST. PART NO:		DATE:	2025/5/5

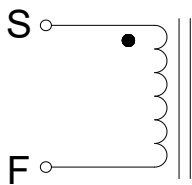
1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

L	W	T	E	F	D
2.92 Max.	2.70 Max.	2.23 Max.	1.02 Typ.	2.54 Typ.	1.27 Typ.

2. SCHEMATIC



3. PART NUMBERING SYSTEM

MWI	1008	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±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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CUSTOMER:		REV. NO:	A0
PART NO:	MWI1008IF系列	PAGE NO:	3/7
CUST. PART NO:		DATE:	2025/5/5

4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc	Isat	Tolerance
		(μH)	(MHz)	(Typ.)	(MHz)Min.	(MHz)Min.	(mA)Max.	
1	MWI1008IFR39□ST-HF	0.39	7.9	12	400	0.40	500	K,M
2	MWI1008IFR47□ST-HF	0.47	25	12	600	0.27	700	K,M
3	MWI1008IFR56□ST-HF	0.56	7.9	12	230	0.62	700	K,M
4	MWI1008IFR68□ST-HF	0.68	7.9	12	230	0.62	700	K,M
5	MWI1008IFR82□ST-HF	0.82	7.9	12	230	0.62	700	K,M
6	MWI1008IFR90□ST-HF	0.9	7.9	20	300	0.35	1400	K,M
7	MWI1008IF1R0□ST-HF	1	7.9	18	230	0.62	700	K,M
8	MWI1008IF1R2□ST-HF	1.2	7.9	18	210	0.68	650	K,M
9	MWI1008IF1R5□ST-HF	1.5	7.9	18	190	0.76	630	K,M
10	MWI1008IF1R8□ST-HF	1.8	7.9	18	170	0.84	600	K,M
11	MWI1008IF2R0□ST-HF	2	7.9	18	160	1.10	550	K,M
12	MWI1008IF2R2□ST-HF	2.2	7.9	18	150	1.10	520	K,M
13	MWI1008IF2R7□ST-HF	2.7	7.9	18	135	1.28	490	K,M
14	MWI1008IF3R3□ST-HF	3.3	7.9	18	120	1.46	450	K,M
15	MWI1008IF3R9□ST-HF	3.9	7.9	18	105	2.30	300	K,M
16	MWI1008IF4R7□ST-HF	4.7	7.9	18	90	2.00	400	K,M
17	MWI1008IF5R6□ST-HF	5.6	7.9	15	80	1.80	380	K,M
18	MWI1008IF6R8□ST-HF	6.8	7.9	15	70	2.00	360	K,M
19	MWI1008IF8R2□ST-HF	8.2	7.9	15	65	2.65	330	K,M
20	MWI1008IF100□ST-HF	10	2.5	12	60	2.95	300	K,M
21	MWI1008IF150□ST-HF	15	2.5	12	30	3.70	280	K,M
22	MWI1008IF180□ST-HF	18	2.5	12	26	4.00	160	K,M
23	MWI1008IF220□ST-HF	22	2.5	12	22	6.14	270	K,M
24	MWI1008IF330□ST-HF	33	2.5	10	12	7.00	200	K,M
25	MWI1008IF390□ST-HF	39	2.5	10	16	10.00	180	K,M
26	MWI1008IF470□ST-HF	47	2.5	10	10	10.70	160	K,M

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CUSTOMER:		REV. NO:	A0
PART NO:	MWI1008IF系列	PAGE NO:	4/7
CUST. PART NO:		DATE:	2025/5/5

4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc	Isat	Tolerance
		(μ H)	(MHz)	(Typ.)	(MHz)Min.	(MHz)Min.	(mA)Max.	
27	MWI1008IF560□ST-HF	56	2.5	10	8	12.00	170	K,M
28	MWI1008IF680□ST-HF	68	2.5	10	6	13.50	145	K,M
29	MWI1008IF820□ST-HF	82	2.5	8	6	20.00	100	K,M
30	MWI1008IF101□ST-HF	100	1	8	4	21.00	80	K,M

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,

5. GENERAL SPECIFICATION

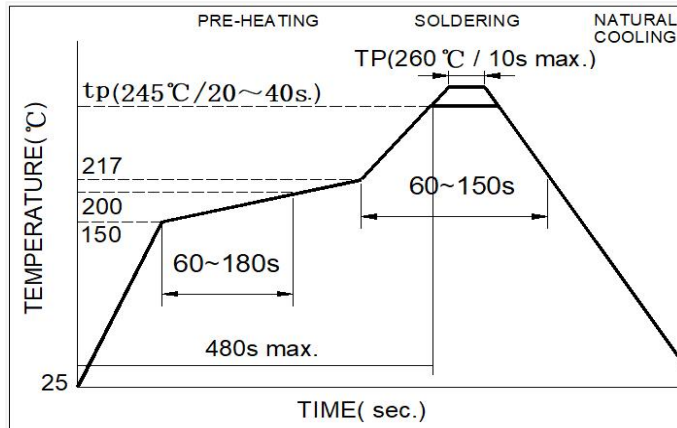
- (1). Operating temp.: -40°C ~ +85°C (Including self-generated heat).
- (2). Storage temp.: -10°C ~ +40°C R.H.:60% Max.
- (3). Moisture sensitivity level (MSL) 1
- (4). Recommended products should be used within 12 months from the date of delivery
- (5). The part temperature (ambient + temp rise) should 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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CUSTOMER:		REV. NO.	A0
PART NO:	MWI1008IF系列	PAGE NO:	5/7
CUST. PART NO:		DATE:	2025/5/5

6. SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



Note:

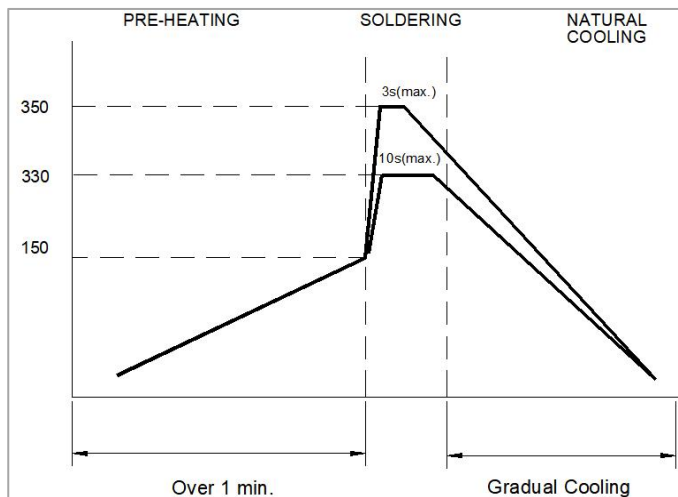
Preheat circuit and products to 150°C

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.

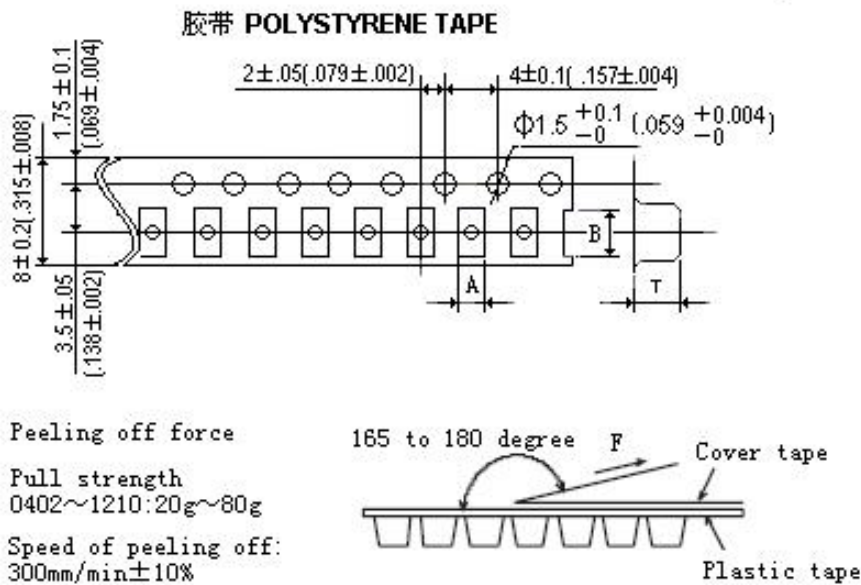
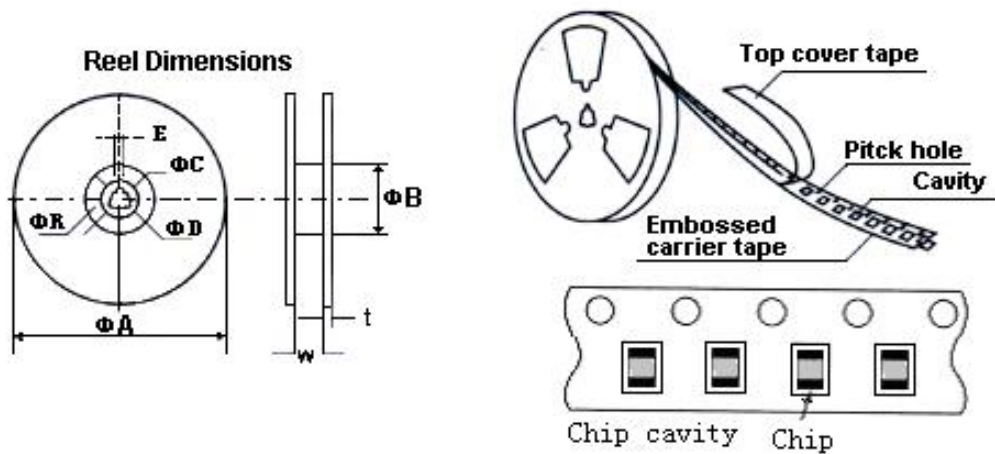
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PART NO:	MWI1008IF系列	PAGE NO:	6/7
CUST. PART NO:		DATE:	2025/5/5

7. PACKAGING(unit: mm)



胶带	1008	A	B	T
		2.73	2.9	2.34

Type	ΦA	ΦB	ΦC	ΦD	E	W	t
1008	178	60	13	21	2	8.4	2

包装数量(PACKAGING QUANTITY):2000Pcs/盘

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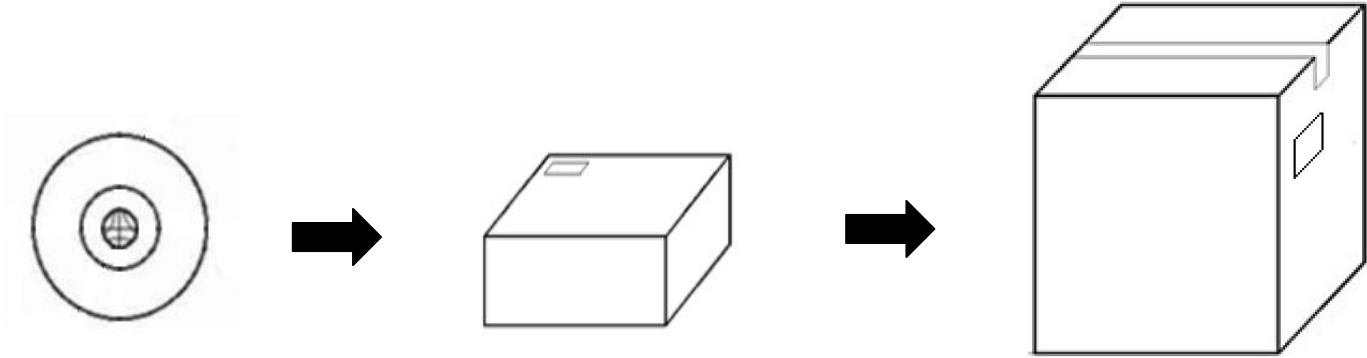


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PART NO:	MWI1008IF系列	PAGE NO:	7/7
CUST. PART NO:		DATE:	2025/5/5

8. Package Specifications

■Inside Box And Outside Carton



卷轴数量	内盒包装数量	外箱包装数量
每卷:2000PCS	每盒四盘，共8000 PCS	小箱6盒，共48000 PCS
		中箱8盒，共64000 PCS
		大箱10盒，共80000 PCS
	内盒包装尺寸	外箱包装尺寸
	20.3*19.3*5.5cm	小箱，40.6*23*19.7cm
		中箱，41*22*26cm
		大箱，41*22*33cm

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