



承認書

SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

WIRE WOUND CHIP INDUCTOR

PART NO:

MWI1210UC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

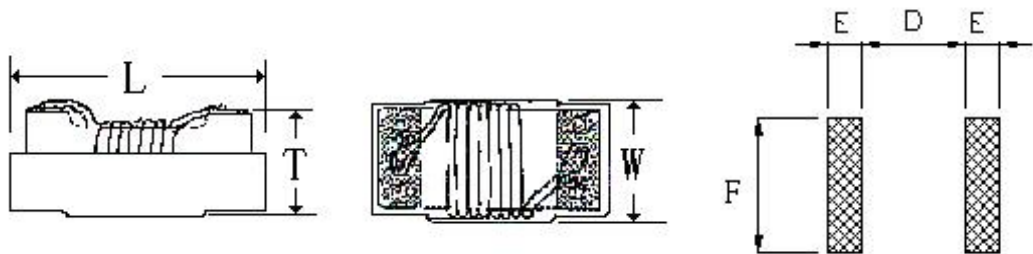
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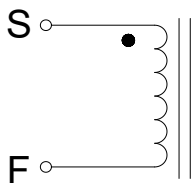
1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

L	W	T	E	F	D
3.5 Max.	2.9 Max.	2.25 Max.	1.02 Typ.	2.54 Typ.	1.78 Typ.

2. SCHEMATIC



3. PART NUMBERING SYSTEM

MWI	1210	UC	10N	J	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) : G±2%; J±5%; K±10%; M±20%
- 6 TERMINAL (端电极材料): G-金端头; 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	Inductance	Test Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(MHz)Min.	(Ω) Max.	(mA) Max.	
1	MWI1210UC10N□ST-HF	10	100	40@300MHZ	4000	0.08	1000	J,K,M
2	MWI1210UC12N□ST-HF	12	100	40@300MHZ	3200	0.08	1000	J,K,M
3	MWI1210UC15N□ST-HF	15	100	40@300MHZ	3200	0.20	1000	J,K,M
4	MWI1210UC18N□ST-HF	18	100	50@300MHZ	2800	0.10	1000	J,K,M
5	MWI1210UC22N□ST-HF	22	100	50@300MHZ	2200	0.10	1000	J,K,M
6	MWI1210UC27N□ST-HF	27	100	50@300MHZ	1800	0.11	1000	J,K,M
7	MWI1210UC33N□ST-HF	33	100	55@300MHZ	1800	0.11	1000	J,K,M
8	MWI1210UC39N□ST-HF	39	100	55@300MHZ	1500	0.12	1000	J,K,M
9	MWI1210UC43N□ST-HF	43	100	55@300MHZ	1500	0.12	1000	J,K,M
10	MWI1210UC47N□ST-HF	47	100	55@300MHZ	1500	0.13	1000	J,K,M
11	MWI1210UC56N□ST-HF	56	100	55@300MHZ	1450	0.14	1000	J,K,M
12	MWI1210UC68N□ST-HF	68	100	55@300MHZ	1200	0.15	900	J,K,M
13	MWI1210UC82N□ST-HF	82	100	55@300MHZ	1000	0.20	900	J,K,M
14	MWI1210UC91N□ST-HF	91	100	60@300MHZ	1100	0.20	1000	J,K,M
15	MWI1210UCR10□ST-HF	100	100	55@300MHZ	900	0.20	850	G,J,K,M
16	MWI1210UCR12□ST-HF	120	100	60@300MHZ	800	0.25	800	G,J,K,M
17	MWI1210UCR15□ST-HF	150	100	60@300MHZ	700	0.30	750	G,J,K,M
18	MWI1210UCR18□ST-HF	180	50	60@300MHZ	650	0.30	700	G,J,K,M
19	MWI1210UCR22□ST-HF	220	50	60@300MHZ	650	0.40	770	G,J,K,M
20	MWI1210UCR24□ST-HF	240	50	40@300MHZ	580	0.40	630	G,J,K,M
21	MWI1210UCR27□ST-HF	270	50	40@300MHZ	580	0.40	630	G,J,K,M
22	MWI1210UCR33□ST-HF	330	50	45@150MHZ	580	0.58	590	G,J,K,M
23	MWI1210UCR36□ST-HF	360	50	45@150MHZ	510	0.58	530	G,J,K,M
24	MWI1210UCR39□ST-HF	390	50	45@150MHZ	510	0.58	530	G,J,K,M

□:表示产品公差

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	Inductance	Test Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(MHz)Min.	(Ω) Max.	(mA) Max.	
25	MWI1210UCR47□ST-HF	470	50	45@150MHZ	480	1.00	490	G,J,K,M
26	MWI1210UCR56□ST-HF	560	25	45@150MHZ	420	1.10	460	G,J,K,M
27	MWI1210UCR68□ST-HF	680	25	45@150MHZ	400	1.20	430	G,J,K,M
28	MWI1210UCR82□ST-HF	820	25	45@150MHZ	370	2.00	400	G,J,K,M
29	MWI1210UC1R0□ST-HF	1000	25	45@150MHZ	340	1.85	320	G,J,K,M
30	MWI1210UC1R2□ST-HF	1200	25	45@150MHZ	220	2.30	300	J,K,M
31	MWI1210UC1R5□ST-HF	1500	7.9	20@50MHZ	160	2.70	310	J,K,M
32	MWI1210UC1R8□ST-HF	1800	7.9	30@50MHZ	160	3.50	310	J,K,M
33	MWI1210UC2R2□ST-HF	2200	7.9	25@50MHZ	130	2.41	310	J,K,M
34	MWI1210UC2R7□ST-HF	2700	7.9	25@50MHZ	110	3.50	300	J,K,M
35	MWI1210UC3R0□ST-HF	3000	7.9	20@25MHZ	110	3.50	300	J,K,M
36	MWI1210UC3R3□ST-HF	3300	7.9	20@25MHZ	60	3.60	290	J,K,M
37	MWI1210UC3R9□ST-HF	3900	7.9	20@25MHZ	60	4.00	290	J,K,M
38	MWI1210UC4R7□ST-HF	4700	7.9	20@25MHZ	60	5.00	280	J,K,M
39	MWI1210UC5R2□ST-HF	5200	7.9	15@25MHZ	50	6.00	250	J,K,M
40	MWI1210UC5R6□ST-HF	5600	7.9	15@25MHZ	50	6.00	250	J,K,M
41	MWI1210UC6R8□ST-HF	6800	7.9	15@7.9MHZ	40	9.00	230	J,K,M
42	MWI1210UC7R5□ST-HF	7500	7.9	20@7.9MHZ	50	9.50	170	J,K,M
43	MWI1210UC8R2□ST-HF	8200	7.9	20@7.9MHZ	50	9.50	170	J,K,M
44	MWI1210UC8R6□ST-HF	8600	7.9	15@7.9MHZ	40	9.00	200	J,K,M

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	Inductance	Test Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min	(MHz)Min.	(Ω) Max.	(mA) Max.	
45	MWI1210UC100□ST-HF	10000	7.9	15@7.9MHZ	30	10.0	150	J,K,M

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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

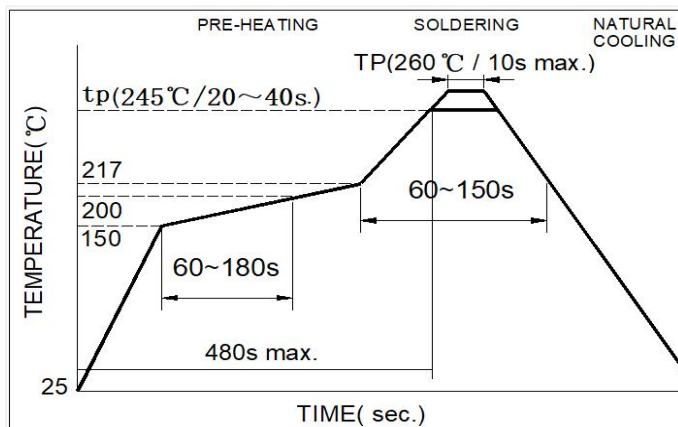
- (1). Operating temp.: -40°C ~ +125°C (Including self-generated heat).
- (2). Storage temp.: -10°C ~ +40°C R.H.:60% Max.
- (3). Moisture sensitivity level (MSL) 1
- (4). Recommended products should be used within 12 months from the date of delivery
- (5). The part temperature (ambient + temp rise) should not exceed 125 °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:

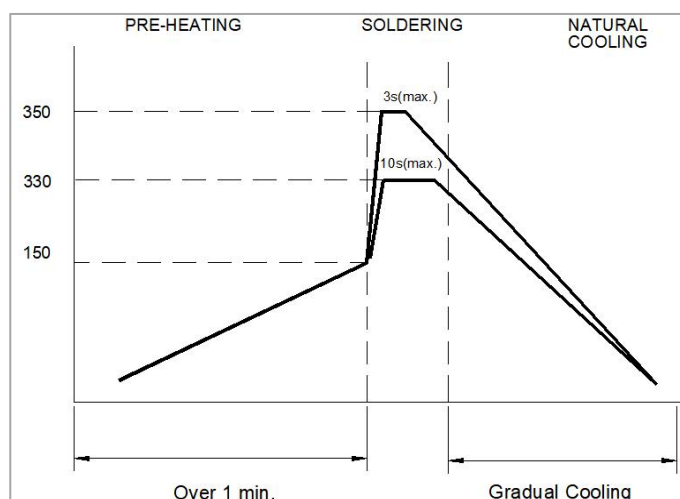
Preheat circuit and products to 150°C

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.

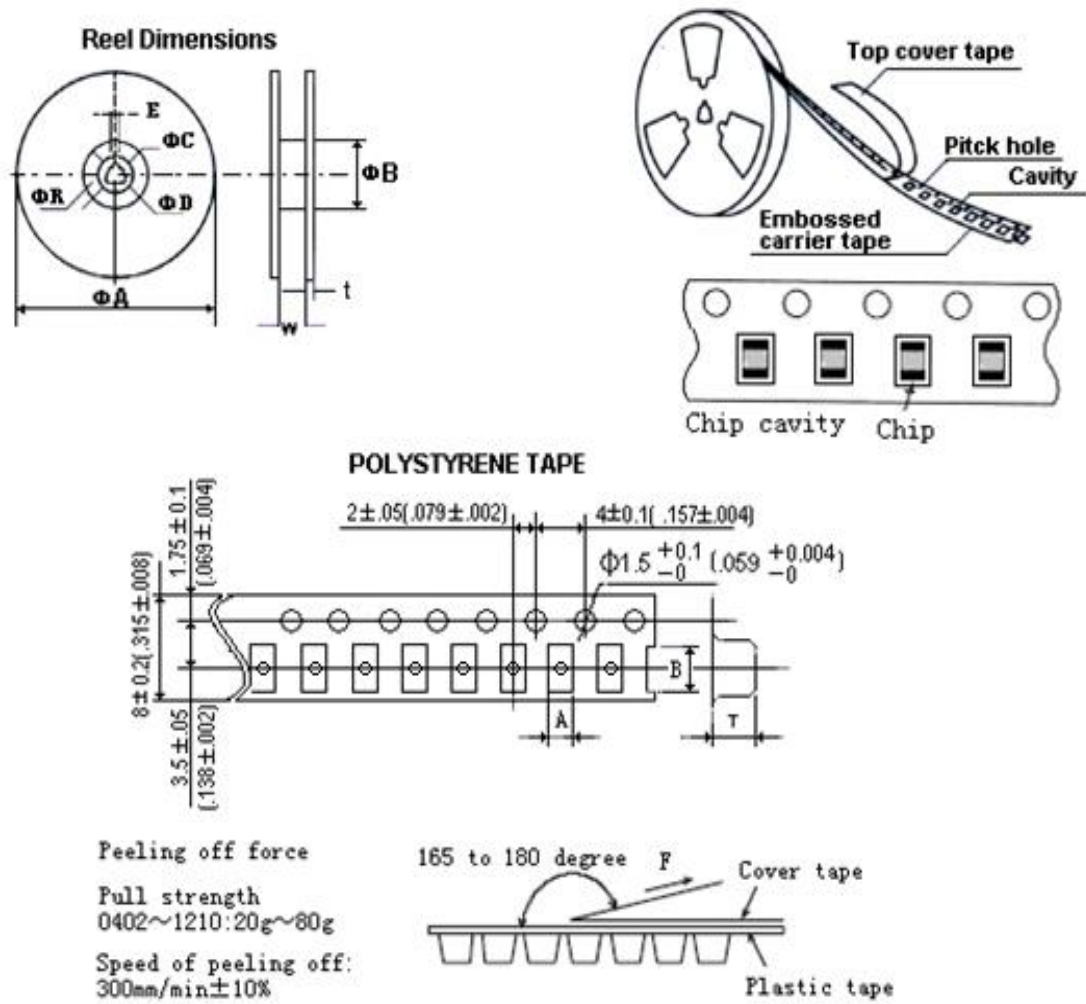
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7. PACKAGE SPECIFICATION



胶带		A	B	T
	1210	2.96	3.60	2.40

Type	ΦA	ΦB	ΦC	ΦD	E	W	t
1210	178	60	13	21	2	8.4	2

包装数量(PACKAGING QUANTITY): 2000 Pcs/盘

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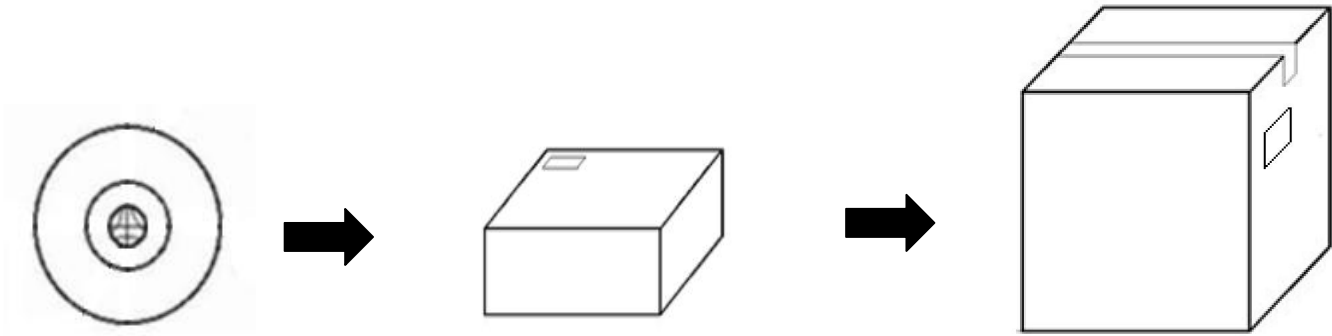


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8. Package Specifications

■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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