承 認 書

SPECIFICATION FOR APPROVAL

CUSTOMER:	STD
DESCRIPTION:	WIRE WOUND CHIP INDUCTOR
PART NO:	MWI1210UC系列
CUST. PART NO:	
REV. NO.	A0

DRAWING		
PREPARED	CHECKED	APPROVED
Yu	Lu	Zeng
DATE:	2023/10/10	

CUSTOMER APPROVE

® 铭易轩电子科技有限公司

Ming Yixuan Electronic Technology Co., LTD

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Specifications subjectto change withoutnotice.Please confirm according to our companyfor latestinformation

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铭易轩电子 SPECIFICATION FOR APPROVAL

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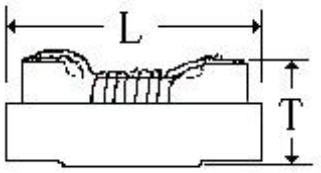
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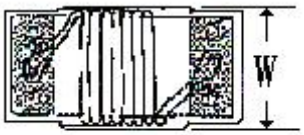
Date	Rev. No.	Change Content	Prepared	Approved
2023/10/10	A0	New issue	Yu	Zeng

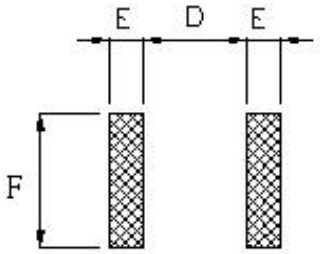
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1. SHAPE & DIMENSION (UNIT:mm)



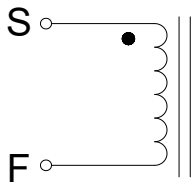




Recommended patterns

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	xxx	UC	xxx	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

□: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.	
45	MWI1210UC100□ST-HF	10000	7.9	15@7.9MHZ	30	10.0	150	J,K,M

□:表示产品公差

Test remarks

(1)All test data is referenced to 25 ℃ ambient.

(2). Irms: DC current that causes the temperature rise (△T ≦40℃) from 25℃ ambient.

5. GENERAL SPECIFICATION

(1). Operating temp.: -40℃ ~ +125℃ (Including self-generated heat).

(2). Storage temp.: -10℃ ~ +40℃ R.H.:60% Max.

(3). Moisture sensitivity level (MSL) 1

(4). Recommended products should be used within 12 months from the date of delivery

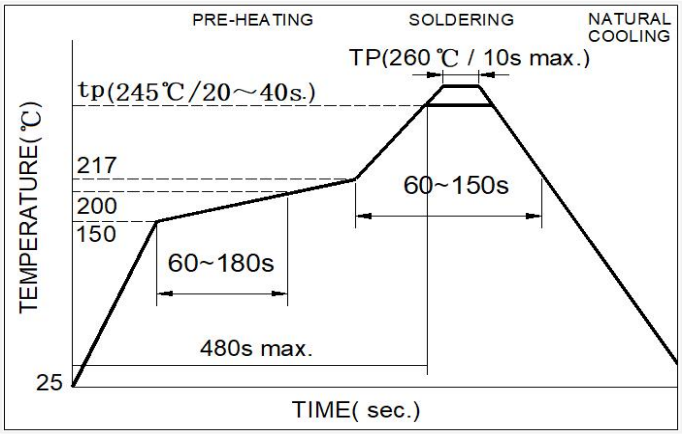
(5). The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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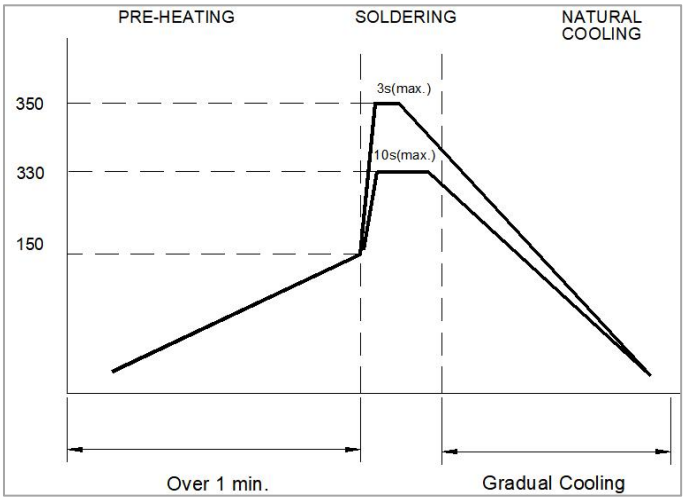
6. SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



Note：
Preheat circuit and products to 150℃
260℃ 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



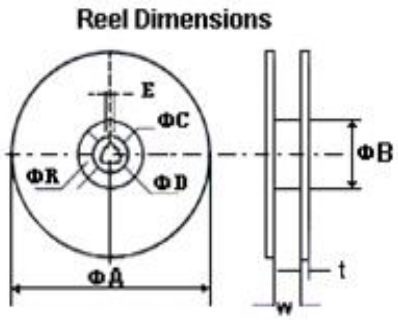


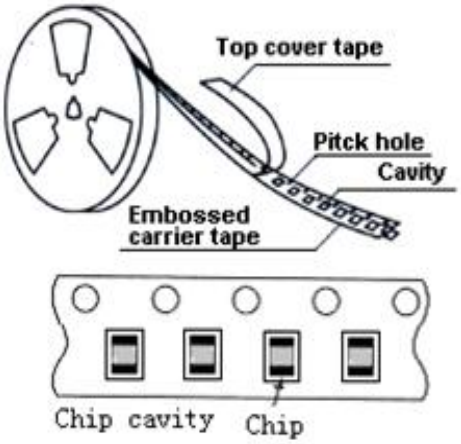
Note：
Use a 20 watt soldering iron with tip diameter of 1.0mm
Limit soldering time to 3 sec.

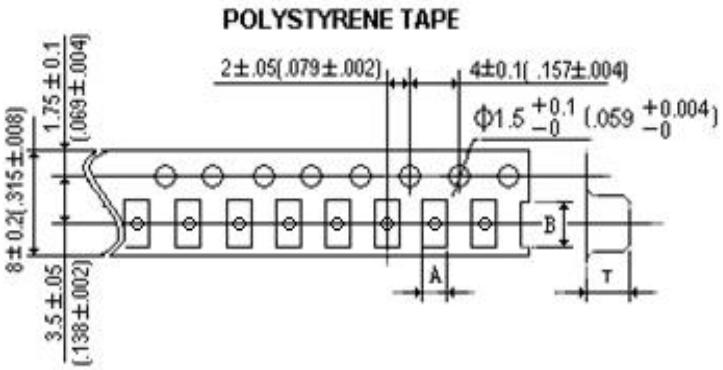
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7. PACKAGE SPECIFICATION



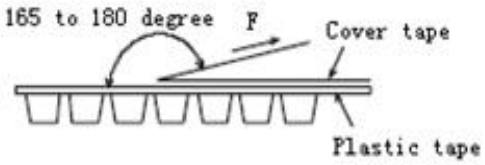




Peeling off force

Pull strength
0402～1210:20g～80g

Speed of peeling off:
300mm/min±10%



		A	B	T
胶带	1210	2.96	3.60	2.40

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

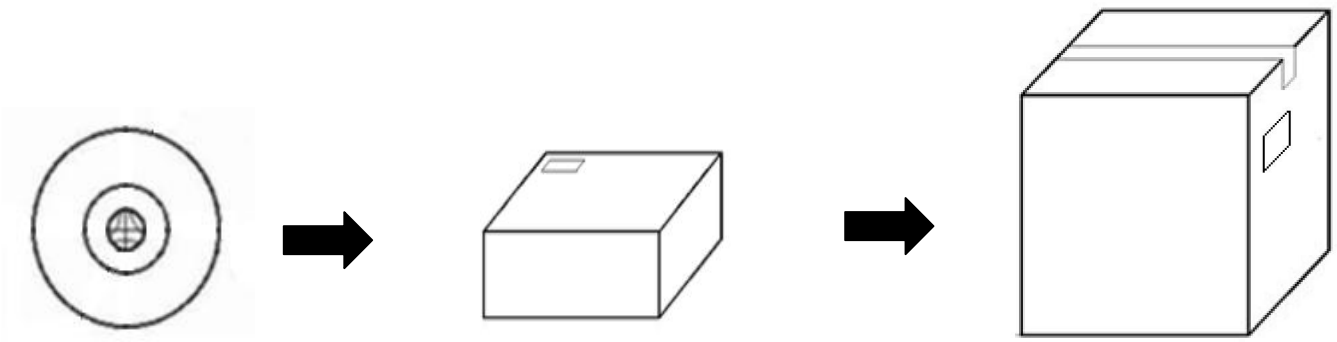
包装数量(PACKAGING QUANTITY)：2000 Pcs/盘

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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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