承 認 書

SPECIFICATION FOR APPROVAL

CUSTOMER:	STD
DESCRIPTION:	WIRE WOUND CHIP INDUCTOR
PART NO:	MWI0402UC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

1.dress: VV Building, No. 20 Jingtai Road, Dalang Town, Dongguan City, Guangdong Province, P.R.China TEL:13640935893

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

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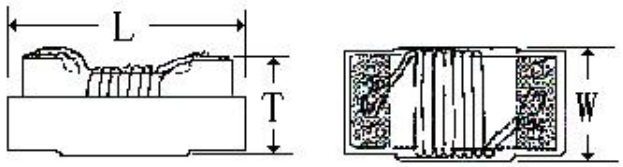
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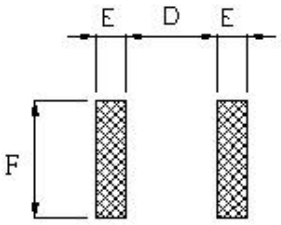
Date	Rev. No.	Change Content	Prepared	Approved
2023/10/10	A0	New issue	Yu	Zeng

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1. SHAPE & DIMENSION (UNIT:mm)

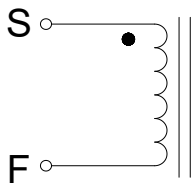




Recommended patterns

L	W	T	E	F	D
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	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）：S±0.3；D±0.5；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	L	Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(GHz)Min.	(Ω) Max.	(mA) Max.	
1	MWI0402UC1N0□ST-HF	1.0	250	10	12.90	0.045	1360	S,D,K,M
2	MWI0402UC1N3□ST-HF	1.3	250	8	12.90	0.150	900	S,D,K,M
3	MWI0402UC1N5□ST-HF	1.5	250	8	12.90	0.150	800	S,D,M
4	MWI0402UC1N8□ST-HF	1.8	250	20	12.00	0.070	1040	S,D,K,M
5	MWI0402UC1N9□ST-HF	1.9	250	20	11.30	0.070	1040	S,D,K,M
6	MWI0402UC2N0□ST-HF	2.0	250	23	11.10	0.090	1040	J,K,M
7	MWI0402UC2N2□ST-HF	2.2	250	22	10.80	0.090	960	J,K,M
8	MWI0402UC2N4□ST-HF	2.4	250	22	10.50	0.090	790	J,K,M
9	MWI0402UC2N6□ST-HF	2.6	250	12	10.40	0.170	400	J,K,M
10	MWI0402UC2N7□ST-HF	2.7	250	12	10.40	0.170	400	J,K,M
11	MWI0402UC2N9□ST-HF	2.9	250	8	8.00	0.250	400	J,K,M
12	MWI0402UC3N0□ST-HF	3.0	250	24	7.00	0.076	840	J,K,M
13	MWI0402UC3N3□ST-HF	3.3	250	24	7.00	0.076	840	J,K,M
14	MWI0402UC3N6□ST-HF	3.6	250	24	6.80	0.076	840	J,K,M
15	MWI0402UC3N9□ST-HF	3.9	250	24	6.00	0.076	840	J,K,M
16	MWI0402UC4N1□ST-HF	4.1	250	22	6.00	0.091	700	J,K,M
17	MWI0402UC4N3□ST-HF	4.3	250	22	6.00	0.091	700	J,K,M
18	MWI0402UC4N7□ST-HF	4.7	250	20	4.77	0.130	640	J,K,M
19	MWI0402UC5N1□ST-HF	5.1	250	23	4.80	0.110	800	J,K,M
20	MWI0402UC5N6□ST-HF	5.6	250	25	4.80	0.110	760	J,K,M
21	MWI0402UC5N8□ST-HF	5.8	250	25	4.80	0.110	760	J,K,M
22	MWI0402UC6N2□ST-HF	6.2	250	25	4.80	0.110	760	J,K,M
23	MWI0402UC6N8□ST-HF	6.8	250	24	4.80	0.120	680	J,K,M
24	MWI0402UC7N2□ST-HF	7.2	250	25	4.80	0.120	680	J,K,M
25	MWI0402UC7N3□ST-HF	7.3	250	25	4.80	0.120	680	J,K,M
26	MWI0402UC7N5□ST-HF	7.5	250	25	4.80	0.150	680	J,K,M
27	MWI0402UC8N2□ST-HF	8.2	250	25	4.40	0.150	680	J,K,M
28	MWI0402UC8N7□ST-HF	8.7	250	25	4.10	0.200	480	J,K,M
29	MWI0402UC9N0□ST-HF	9.0	250	25	4.16	0.150	680	J,K,M
30	MWI0402UC9N1□ST-HF	9.1	250	25	4.16	0.150	680	J,K,M

□:表示产品公差

APPROVED	CHECKED	PREPARED
Zeng	Lu	Yu

铭易轩电子

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(GHz)Min.	(Ω) Max.	(mA) Max.	
31	MWI0402UC9N5□ST-HF	9.5	250	24	4.00	0.200	480	J,K,M
32	MWI0402UC10N□ST-HF	10.0	250	24	3.90	0.200	480	G,J,K,M
33	MWI0402UC11N□ST-HF	11.0	250	26	3.68	0.120	640	G,J,K,M
34	MWI0402UC12N□ST-HF	12.0	250	26	3.60	0.120	640	G,J,K,M
35	MWI0402UC13N□ST-HF	13.0	250	24	3.45	0.210	440	G,J,K,M
36	MWI0402UC15N□ST-HF	15.0	250	26	3.28	0.170	560	G,J,K,M
37	MWI0402UC16N□ST-HF	16.0	250	25	3.10	0.250	560	G,J,K,M
38	MWI0402UCI8N□ST-HF	18.0	250	25	3.10	0.230	420	G,J,K,M
39	MWI0402UC19N□ST-HF	19.0	250	26	3.04	0.240	480	G,J,K,M
40	MWI0402UC20N□ST-HF	20.0	250	26	3.00	0.250	420	G,J,K,M
41	MWI0402UC22N□ST-HF	22.0	250	25	2.80	0.300	400	G,J,K,M
42	MWI0402UC23N□ST-HF	23.0	250	25	2.72	0.300	400	G,J,K,M
43	MWI0402UC24N□ST-HF	24.0	250	25	2.70	0.350	400	G,J,K,M
44	MWI0402UC27N□ST-HF	27.0	250	25	2.48	0.300	400	G,J,K,M
45	MWI0402UC30N□ST-HF	30.0	250	25	2.35	0.400	400	G,J,K,M
46	MWI0402UC33N□ST-HF	33.0	250	24	2.35	0.400	400	G,J,K,M
47	MWI0402UC36N□ST-HF	36.0	250	25	2.32	0.500	320	G,J,K,M
48	MWI0402UC39N□ST-HF	39.0	250	25	2.10	0.550	200	G,J,K,M
49	MW10402UC40N□ST-HF	40.0	250	24	2.24	0.650	320	G,J,K,M
50	MW10402UC43N□ST-HF	43.0	250	25	2.03	0.810	100	G,J,K,M
51	MWI0402UC47N□ST-HF	47.0	250	25	2.10	0.830	150	G,J,K,M
52	MWI0402UC51N□ST-HF	51.0	250	25	1.75	0.920	100	G,J,K,M
53	MWI0402UC56N□ST-HF	56.0	250	25	1.76	0.970	100	G,J,K,M
54	MWI0402UC62N□ST-HF	62.0	250	25	1.62	1.400	100	G,J,K,M
55	MW10402UC68N□ST-HF	68.0	250	25	1.62	1.500	100	G,J,K,M
56	MWI0402UC72N□ST-HF	72.0	250	25	1.26	1.700	50	G,J,K,M
57	MWI0402UC75N□ST-HF	75.0	250	25	1.26	1.750	50	G,J,K,M
58	MW10402UC77N□ST-HF	77.0	250	25	1.26	1.750	50	G,J,K,M
59	MW10402UC82N□ST-HF	82.0	250	25	1.26	1.800	50	G,J,K,M
60	MWI0402UC91N□ST-HF	91.0	250	24	1.16	2.200	30	G,J,K.M
61	MW10402UCR10□ST-HF	100.0	250	24	1.16	2.500	30	G,J,K,M

□:表示产品公差

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(GHz)Min.	(Ω) Max.	(mA) Max.	
62	MW10402UCR11□ST-HF	110.0	250	24	1.15	2.600	30	G,J,K,M
63	MW10402UCR12□ST-HF	120.0	250	24	1.10	2.200	30	G,J,K,M
64	MW10402UCR15□ST-HF	150.0	250	10	1.00	4.000	20	G,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

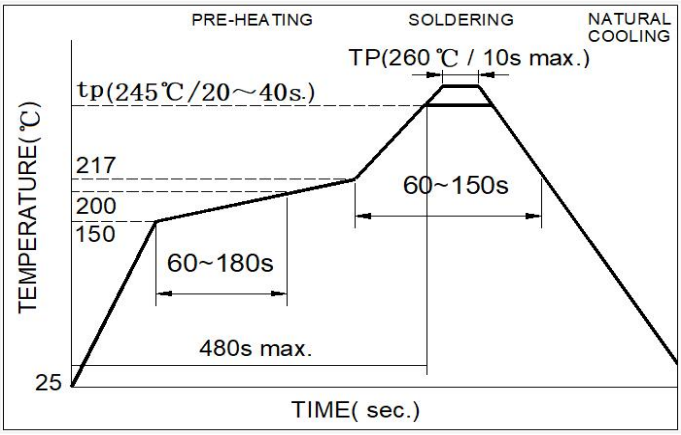
(5). The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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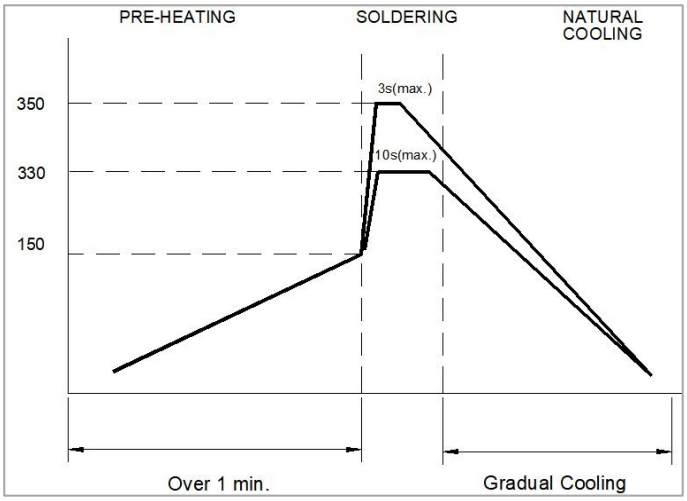
6. SOLDERING CONDITIONS

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



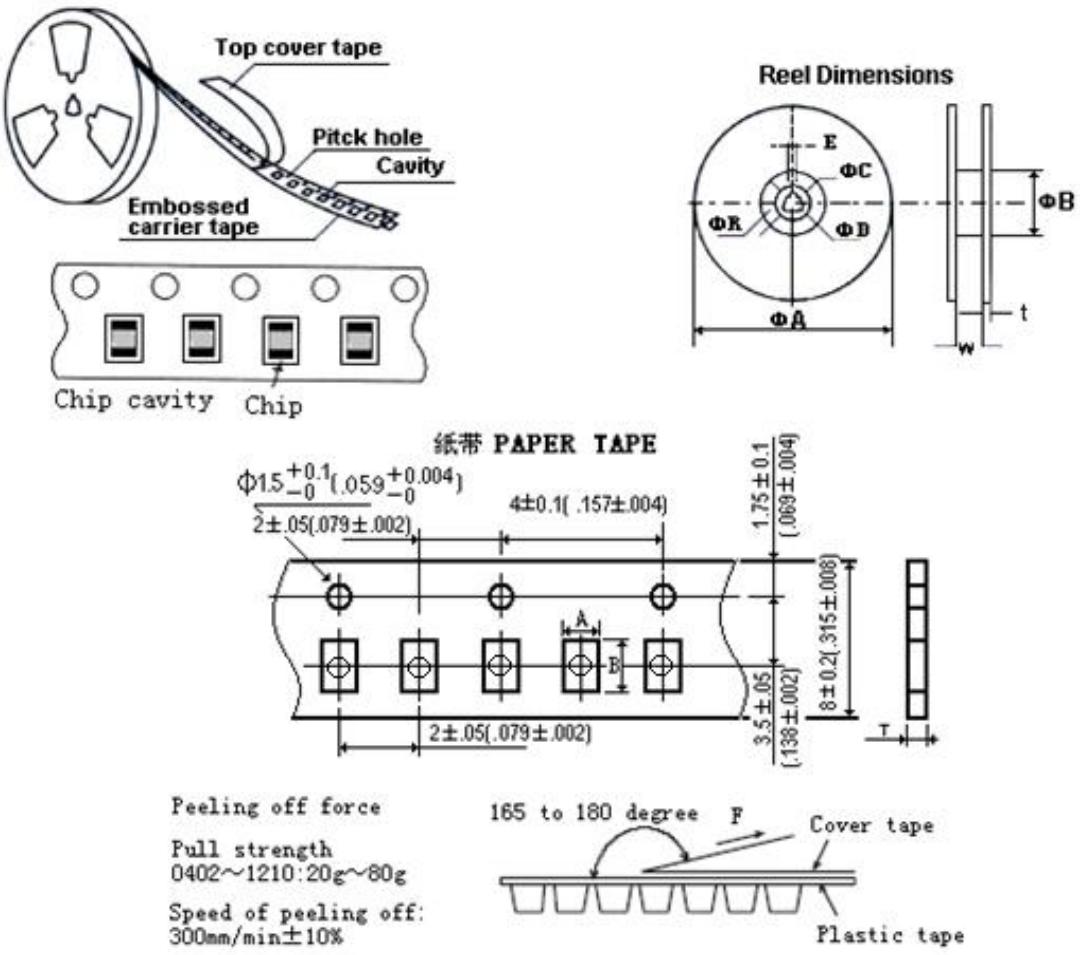


Note：
Use a 20 watt soldering iron with tip diameter of 1.0mm
Limit soldering time to 3 sec.

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7. PACKAGE SPECIFICATION



	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

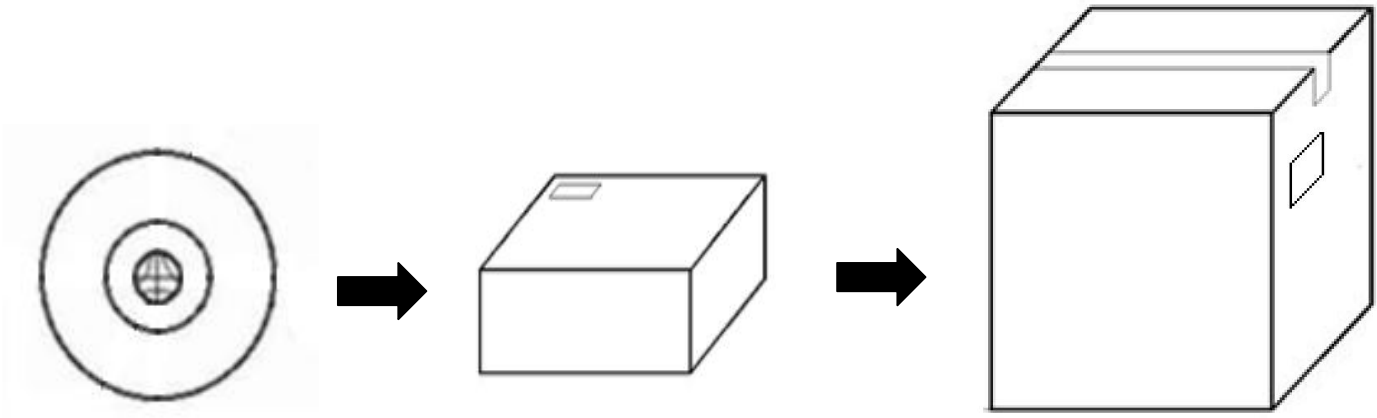
包装数量(PACKAGING QUANTITY):10000Pcs/盘

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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:10000 PCS		**每盒四盘，共40000 PCS**		**小箱6盒，共240000 PCS**
				中箱8盒，共320000 PCS
				大箱10盒，共400000 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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