承 認 書

SPECIFICATION FOR APPROVAL

CUSTOMER:	STD
DESCRIPTION:	WIRE WOUND CHIP INDUCTOR
PART NO:	MWI0805UC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

网址: http://www.dgmingyixuan.com

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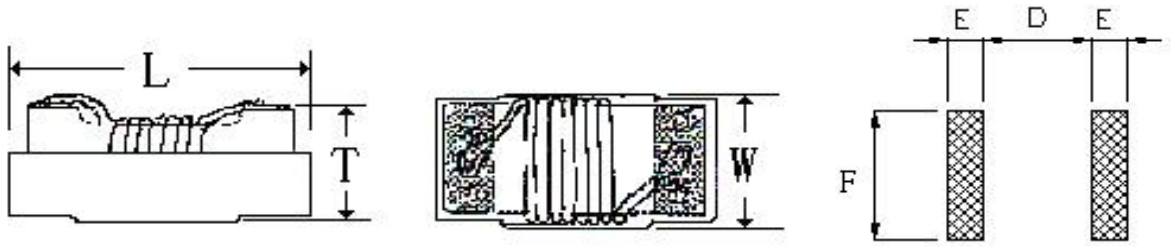
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MODIFY RECORD 变更履历

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

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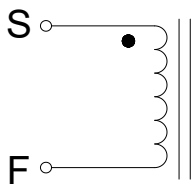
1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

L	W	T	E	F	D
2.29 Max.	1.73 Max.	1.52 Max.	1.02 Typ.	1.78 Typ.	0.76 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；G±2%；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	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(MHz)Min.	(Ω)Max.	(mA) Max.	
1	MWI0805UC2N2□ST-HF	2.2	250	50@1GHz	7900	0.06	800	S,J,K,M
2	MWI0805UC2N7□ST-HF	2.7	250	50@1GHz	7900	0.06	800	S,J,K,M
3	MWI0805UC3N0□ST-HF	3	250	40@1.5GHz	7900	0.06	800	S,J,K,M
4	MWI0805UC3N3□ST-HF	3.3	250	40@1.5GHz	7900	0.08	600	S,J,K,M
5	MWI0805UC3N6□ST-HF	3.6	250	20@1GHz	7900	0.2	200	S,J,K,M
6	MWI0805UC3N9□ST-HF	3.9	250	20@1GHz	7900	0.2	150	S,J,K,M
7	MWI0805UC4N7□ST-HF	4.7	250	35@1GHz	6200	0.08	600	S,J,K,M
8	MWI0805UC5N1□ST-HF	5.1	250	50@1GHz	6200	0.08	600	S,J,K,M
9	MWI0805UC5N6□ST-HF	5.6	250	65@1GHz	5900	0.08	600	J,K,M
10	MWI0805UC6N2□ST-HF	6.2	250	65@1GHz	5900	0.08	600	J,K,M
11	MWI0805UC6N8□ST-HF	6.8	250	50@1GHz	5600	0.11	600	J,K,M
12	MWI0805UC7N5□ST-HF	7.5	250	50@1GHz	4800	0.14	600	J,K,M
13	MWI0805UC8N2□ST-HF	8.2	250	50@1GHz	4400	0.12	600	J,K,M
14	MWI0805UC9N1□ST-HF	9.1	250	60@500MHz	4300	0.1	600	J,K,M
15	MWI0805UC10N□ST-HF	10	250	60@500MHz	4300	0.1	600	J,K,M
16	MWI0805UC12N□ST-HF	12	250	50@500MHz	4000	0.15	600	J,K,M
17	MWI0805UC15N□ST-HF	15	250	50@500MHz	3200	0.17	600	J,K,M
18	MWI0805UC16N□ST-HF	16	250	50@500MHz	3200	0.17	600	J,K,M
19	MWI0805UC18N□ST-HF	18	250	50@500MHz	3100	0.2	600	J,K,M
20	MWI0805UC20N□ST-HF	20	250	55@500MHz	2600	0.22	500	J,K,M
21	MWI0805UC22N□ST-HF	22	250	55@500MHz	2600	0.22	500	G,J,K,M
22	MWI0805UC23N□ST-HF	23	250	50@500MHz	2400	0.22	500	G,J,K,M
23	MWI0805UC24N□ST-HF	24	250	50@500MHz	2400	0.22	500	G,J,K,M
24	MWI0805UC25N□ST-HF	25	250	50@500MHz	2450	0.22	500	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.	(MHz)Min.	(Ω)Max.	(mA) Max.	
25	MWI0805UC27N□ST-HF	27	250	55@500MHz	2580	0.250	500	G,J,K,M
26	MWI0805UC30N□ST-HF	30	250	55@500MHz	2400	0.250	500	G,J,K,M
27	MWI0805UC33N□ST-HF	33	250	60@500MHz	2150	0.270	500	G,J,K,M
28	MWI0805UC36N□ST-HF	36	250	55@500MHz	1900	0.270	500	G,J,K,M
29	MWI0805UC39N□ST-HF	39	250	60@500MHz	1850	0.290	500	G,J,K,M
30	MWI0805UC43N□ST-HF	43	200	60@500MHz	1800	0.340	500	G,J,K,M
31	MWI0805UC47N□ST-HF	47	200	60@500MHz	1700	0.310	500	G,J,K,M
32	MWI0805UC50N□ST-HF	50	200	60@500MHz	1650	0.340	500	G,J,K,M
33	MWI0805UC56N□ST-HF	56	200	60@500MHz	1600	0.340	500	G,J,K,M
34	MWI0805UC62N□ST-HF	62	200	60@500MHz	1450	0.360	500	G,J,K,M
35	MWI0805UC64N□ST-HF	64	200	60@500MHz	1500	0.380	500	G,J,K,M
36	MWI0805UC68N□ST-HF	68	200	60@500MHz	1500	0.380	500	G,J,K,M
37	MWI0805UC72N□ST-HF	72	150	60@500MHz	1400	0.380	500	G,J,K,M
38	MWI0805UC75N□ST-HF	75	150	60@500MHz	1400	0.400	450	G,J,K,M
39	MWI0805UC78N□ST-HF	78	150	60@500MHz	1400	0.400	450	G,J,K,M
40	MWI0805UC82N□ST-HF	82	150	65@500MHz	1330	0.420	400	G,J,K,M
41	MWI0805UC91N□ST-HF	91	150	65@500MHz	1330	0.480	400	G,J,K,M
42	MWI0805UCR10□ST-HF	100	150	65@500MHz	1250	0.460	400	G,J,K,M
43	MWI0805UCR11□ST-HF	110	150	50@250MHz	1100	0.480	400	G,J,K,M
44	MWI0805UCR12□ST-HF	120	150	50@250MHz	1100	0.510	400	G,J,K,M
45	MWI0805UCR13□ST-HF	130	100	50@250MHz	920	0.560	400	G,J,K,M
46	MWI0805UCR14□ST-HF	140	100	50@250MHz	920	0.560	400	G,J,K,M
47	MWI0805UCR15□ST-HF	150	100	50@250MHz	920	0.560	400	G,J,K,M
48	MWI0805UCR16□ST-HF	160	100	50@250MHz	920	0.600	400	G,J,K,M

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(MHz)Min.	(Ω)Max.	(mA) Max.	
49	MWI0805UCR18□ST-HF	180	100	50@250MHz	920	0.64	400	G,J,K,M
50	MWI0805UCR20□ST-HF	200	100	50@250MHz	860	0.68	400	G,J,K,M
51	MWI0805UCR21□ST-HF	210	100	50@250MHz	820	0.7	400	G,J,K,M
52	MWI0805UCR22□ST-HF	220	100	50@250MHz	820	0.7	400	G,J,K,M
53	MWI0805UCR24□ST-HF	240	100	44@250MHz	770	1	350	G,J,K,M
54	MWI0805UCR25□ST-HF	250	100	45@250MHz	750	1.2	350	G,J,K,M
55	MWI0805UCR27□ST-HF	270	100	48@250MHz	730	1	350	G,J,K,M
56	MWI0805UCR28□ST-HF	280	100	48@250MHz	550	1.35	350	G,J,K,M
57	MWI0805UCR29□ST-HF	290	150	48@250MHz	450	1.4	310	G,J,K,M
58	MWI0805UCR30□ST-HF	300	150	48@250MHz	450	1.4	310	G,J,K,M
59	MWI0805UCR33□ST-HF	330	100	48@250MHz	650	1.4	310	G,J,K,M
60	MWI0805UCR36□ST-HF	360	100	48@250MHz	630	1.45	300	G,J,K,M
61	MWI0805UCR39□ST-HF	390	100	48@250MHz	600	1.5	290	G,J,K,M
62	MWI0805UCR42□ST-HF	420	50	33@100MHz	425	1.7	250	G,J,K,M
63	MWI0805UCR43□ST-HF	430	50	33@100MHz	425	1.7	250	G,J,K,M
64	MWI0805UCR47□ST-HF	470	50	33@100MHz	375	1.76	250	G,J,K,M
65	MWI0805UCR56□ST-HF	560	25	23@50MHz	330	1.9	230	G,J,K,M
66	MWI0805UCR62□ST-HF	620	25	23@50MHz	320	2.2	210	G,J,K,M
67	MWI0805UCR68□ST-HF	680	25	23@50MHz	310	2.2	190	G,J,K,M
68	MWI0805UCR75□ST-HF	750	25	23@50MHz	310	2.3	180	G,J,K,M
69	MWI0805UCR82□ST-HF	820	25	23@50MHz	310	2.35	180	G,J,K,M
70	MWI0805UCR88□ST-HF	880	25	23@50MHz	310	2.35	180	G,J,K,M
71	MWI0805UCR91□ST-HF	910	25	22@50MHz	250	2.45	170	G,J,K,M
72	MWI0805UC1R0□ST-HF	1000	25	20@50MHz	220	2.5	170	J,K,M

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4. ELECTRICAL CHARACTERISTICS

No.	Part Number	L	Freq	Q	SRF	Rdc	Irms	Tolerance
		(nH)	(MHz)	Min.	(MHz)Min.	(Ω)Max.	(mA) Max.	
73	MWI0805UC1R2□ST-HF	1200	25	20@25MHz	180	2.9	150	J,K,M
74	MWI0805UC1R5□ST-HF	1500	25	20@25MHz	160	3.3	150	J,K,M
75	MWI0805UC1R6□ST-HF	1600	25	20@25MHz	140	3.4	150	J,K,M
76	MWI0805UC1R8□ST-HF	1800	25	20@25MHz	130	3.5	120	J,K,M
77	MWI0805UC2R2□ST-HF	2200	25	20@25MHz	100	4.5	120	J,K,M
78	MWI0805UC2R7□ST-HF	2700	25	18@25MHz	80	4.8	100	J,K,M
79	MWI0805UC3R3□ST-HF	3300	25	18@25MHz	50	6.8	50	J,K,M
80	MWI0805UC4R7□ST-HF	4700	25	18@25MHz	40	7	30	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

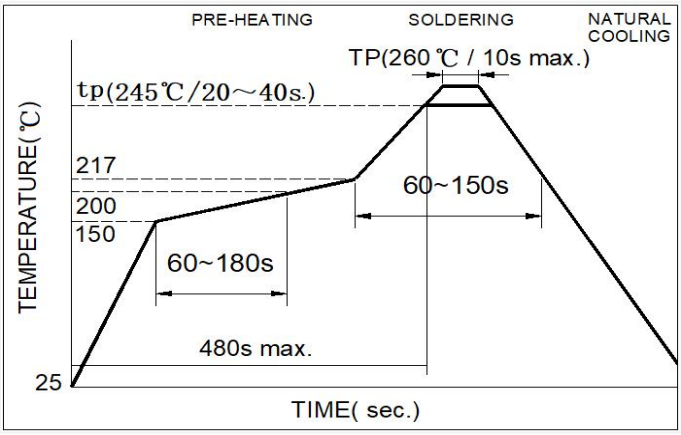
(5). The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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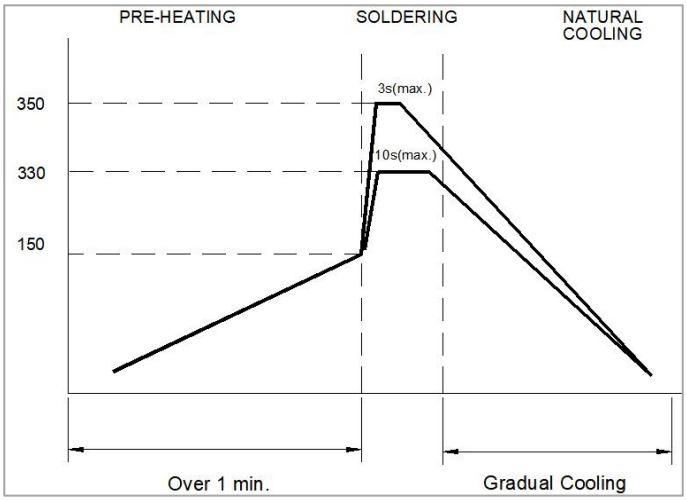
6. SOLDERING CONDITIONS

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





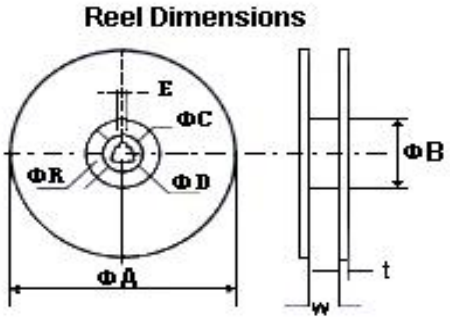
Note：
Use a 20 watt soldering iron with tip diameter of 1.0mm
Limit soldering time to 3 sec.

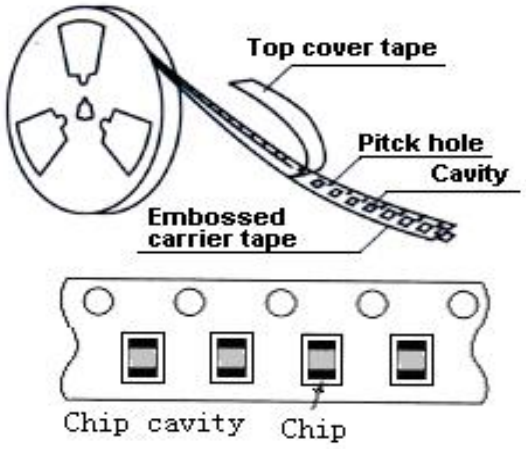
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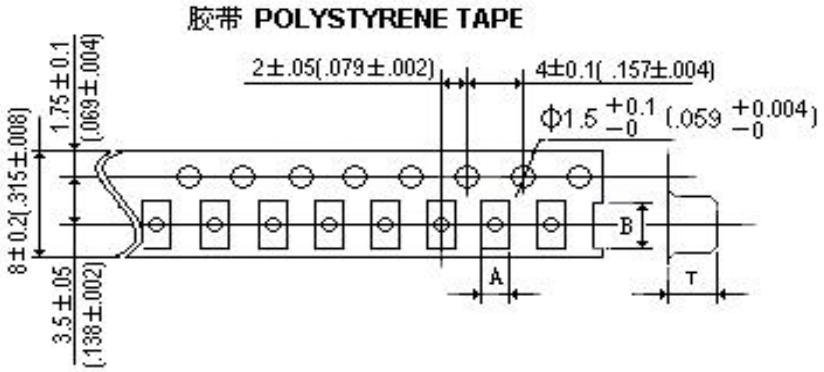
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7. PACKAGING(unit: mm)



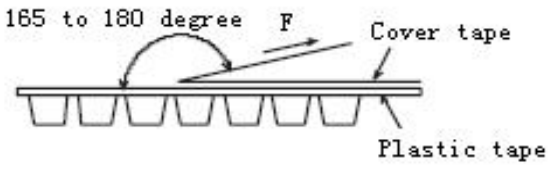




Peeling off force

Pull strength
0402～1210:20g～80g

Speed of peeling off:
300mm/min±10%



		A	B	T
胶带	0805	1.85	2.4	1.45

Type	ΦA	ΦB	ΦC	ΦD	E	W	t
0805	178	60	13	21	2	8.4	2

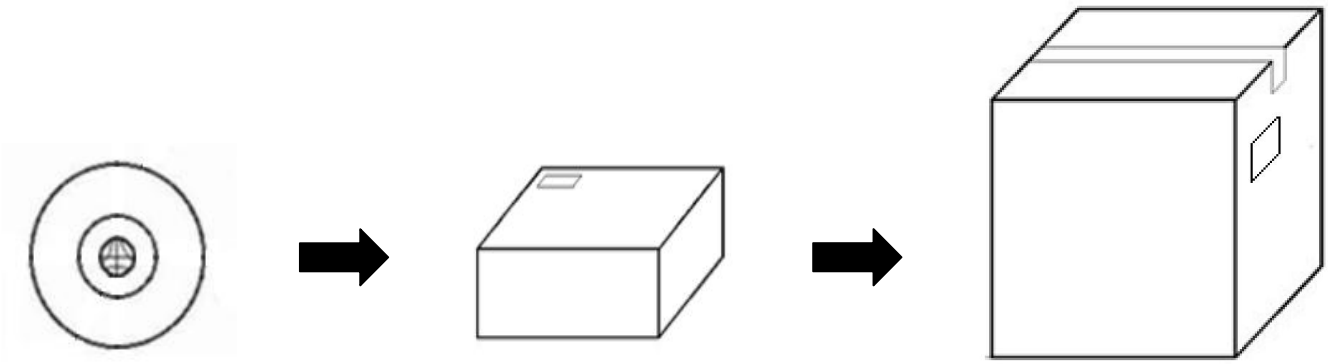
包装数量(PACKAGING QUANTITY)：2000Pcs/盘

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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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