

承認書

SPECIFICATION FOR APPROVAL

CUSTOMER: 2144

DESCRIPTION: WIRE WOUND CHIP INDUCTOR

DDY PART NO: WI0805UC系列

CUSTOMER MODEL NO: _____

| DRAWING | | |
|---------|------------|----------|
| MADE | CHECKED | APPROVED |
| 谭晶晶 | 黄志伟 | 肖中华 |
| DATE: | 2023年9月19日 | |

| CUSTOMER APPROVE |
|------------------|
| |



惠州市德立电子有限公司
HUI ZHOU DE LI ELECTRONICS CO., LTD

廣東省博羅縣洲際工業園梅園三路
NO.3 MEI YUAN ROAD, ZHOU JI INDUSTRIAL AREA, BOLUO COUNTY GUANGDONG

電話：15970768093 13640935893

傳真：0752-6207969

郵編：516100

Http://ddycoils.com



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HUI ZHOU DE LI ELECTRONICS CO., LTD

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| CUSTOMER: | | REV NO: | A |
| DESCRIPTION: | WIRE WOUND CHIP INDUCTOR | PAGE NO: | PAGE 1 OF 7 |
| PART NO: | WI0805UC系列 | SN. | |
| CUSTOMER NO: | | DATE: | 2023年9月19日 |

CATALOG

| | | |
|---------------------------------|-------|------|
| Resume | | P2 |
| Shape & Dimension | | P3 |
| Characteristic | | P3 |
| Part numbering stsem | | P3 |
| General specification | | P3 |
| Electrical Characteristics List | | P4-5 |
| Soldering Conditions | | P6 |
| Package Information | | P7 |

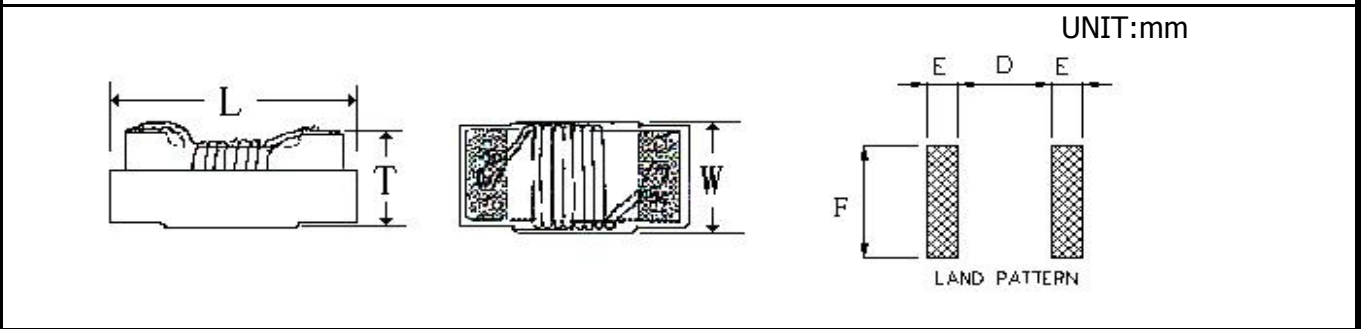


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| CUSTOMER: | | REV NO: | A |
| DESCRIPTION: | WIRE WOUND CHIP INDUCTOR | PAGE NO: | PAGE 3 OF 7 |
| PART NO: | WI0805UC系列 | SN. | |
| CUSTOMER NO: | | DATE: | 2023年9月19日 |

1.SHAPE & DIMENSION



| CODE | | L(MAX) | W(MAX) | T(MAX) | E(Typ.) | F(Typ.) | D(Typ.) |
|-----------|----------|--------|--------|--------|---------|---------|---------|
| DIMENSION | WI0805UC | 2.29 | 1.73 | 1.52 | 1.02 | 1.78 | 0.76 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

2. PART NUMBERING SYSTEM

WI 0805 UC 2N2 J S T - HF
1 2 3 4 5 6 7 8

- PRODUCT SYMBOL (产品代号)
- DIMENSIONS (规格尺寸)
- MATERIAL (芯片类型)
- INDUCTANCE (电感量)
- TOLERANCE (公差) : S±0.3; G±2%; J±5%; K±10%; M±20%
- TERMINAL (端电极材料) : S-锡端头
- PACKAGING (包装方式) : T-编带盘装; B-散装
- E.P. (环保) : LF—Lead Free HF—Halogen Free FP—Red Phosphor Free

3.GENERAL SPECIFICATION

- Rating DC current: Temperature rise(ΔT) is 40°C approximately at Irms.
- Operating temp.: -40°C~ +85°C
- Storage temp.: -10°C ~ +40°C R.H.: 65% Max
- Moisture sensitivity level (MSL) 2 (1 year floor life at <30°C/65% relative humidity)

| | | |
|-------------|------------|-------|
| APPROVED BY | CHECKED BY | DRAFT |
| 肖中华 | 黄志伟 | 谭晶晶 |



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| PART NO: | WI0805UC系列 | SN: | |
| CUSTOMER NO: | | DATE: | 2023年9月19日 |

4.1 Electrical Characteristics List

| NO. | Part Number | L | Freq | Q | SRF | Rdc | Irms | 产品公差 |
|-----|-------------------|------|-------|-----------|----------|---------|------|---------|
| | | (nH) | (MHz) | Min | (MHz)Min | (Ω) Max | (mA) | |
| 1 | WI0805UC2N2□ST-HF | 2.2 | 250 | 50@1GHz | 7900 | 0.06 | 800 | S,J,K,M |
| 2 | WI0805UC2N7□ST-HF | 2.7 | 250 | 50@1GHz | 7900 | 0.06 | 800 | S,J,K,M |
| 3 | WI0805UC3N0□ST-HF | 3 | 250 | 40@1.5GHz | 7900 | 0.06 | 800 | S,J,K,M |
| 4 | WI0805UC3N3□ST-HF | 3.3 | 250 | 40@1.5GHz | 7900 | 0.08 | 600 | S,J,K,M |
| 5 | WI0805UC3N6□ST-HF | 3.6 | 250 | 20@1GHz | 7900 | 0.2 | 200 | S,J,K,M |
| 6 | WI0805UC3N9□ST-HF | 3.9 | 250 | 20@1GHz | 7900 | 0.2 | 150 | S,J,K,M |
| 7 | WI0805UC4N7□ST-HF | 4.7 | 250 | 35@1GHz | 6200 | 0.08 | 600 | S,J,K,M |
| 8 | WI0805UC5N1□ST-HF | 5.1 | 250 | 50@1GHz | 6200 | 0.08 | 600 | S,J,K,M |
| 9 | WI0805UC5N6□ST-HF | 5.6 | 250 | 65@1GHz | 5900 | 0.08 | 600 | S,J,K,M |
| 10 | WI0805UC6N2□ST-HF | 6.2 | 250 | 65@1GHz | 5900 | 0.08 | 600 | J,K,M |
| 11 | WI0805UC6N8□ST-HF | 6.8 | 250 | 50@1GHz | 5600 | 0.11 | 600 | J,K,M |
| 12 | WI0805UC7N5□ST-HF | 7.5 | 250 | 50@1GHz | 4800 | 0.14 | 600 | J,K,M |
| 13 | WI0805UC8N2□ST-HF | 8.2 | 250 | 50@1GHz | 4400 | 0.12 | 600 | J,K,M |
| 14 | WI0805UC9N1□ST-HF | 9.1 | 250 | 60@500MHz | 4300 | 0.1 | 600 | J,K,M |
| 15 | WI0805UC10N□ST-HF | 10 | 250 | 60@500MHz | 4300 | 0.1 | 600 | J,K,M |
| 16 | WI0805UC12N□ST-HF | 12 | 250 | 50@500MHz | 4000 | 0.15 | 600 | J,K,M |
| 17 | WI0805UC15N□ST-HF | 15 | 250 | 50@500MHz | 3200 | 0.17 | 600 | J,K,M |
| 18 | WI0805UC16N□ST-HF | 16 | 250 | 50@500MHz | 3200 | 0.17 | 600 | J,K,M |
| 19 | WI0805UC18N□ST-HF | 18 | 250 | 50@500MHz | 3100 | 0.2 | 600 | J,K,M |
| 20 | WI0805UC20N□ST-HF | 20 | 250 | 55@500MHz | 2600 | 0.22 | 500 | J,K,M |
| 21 | WI0805UC22N□ST-HF | 22 | 250 | 55@500MHz | 2600 | 0.22 | 500 | J,K,M |
| 22 | WI0805UC23N□ST-HF | 23 | 250 | 50@500MHz | 2400 | 0.22 | 500 | J,K,M |
| 23 | WI0805UC24N□ST-HF | 24 | 250 | 50@500MHz | 2400 | 0.22 | 500 | J,K,M |
| 24 | WI0805UC25N□ST-HF | 25 | 250 | 50@500MHz | 2450 | 0.22 | 500 | J,K,M |
| 25 | WI0805UC27N□ST-HF | 27 | 250 | 55@500MHz | 2580 | 0.25 | 500 | J,K,M |
| 26 | WI0805UC30N□ST-HF | 30 | 250 | 55@500MHz | 2400 | 0.25 | 500 | J,K,M |
| 27 | WI0805UC33N□ST-HF | 33 | 250 | 60@500MHz | 2150 | 0.27 | 500 | J,K,M |
| 28 | WI0805UC36N□ST-HF | 36 | 250 | 55@500MHz | 1900 | 0.27 | 500 | J,K,M |
| 29 | WI0805UC39N□ST-HF | 39 | 250 | 60@500MHz | 1850 | 0.29 | 500 | J,K,M |
| 30 | WI0805UC43N□ST-HF | 43 | 200 | 60@500MHz | 1800 | 0.34 | 500 | J,K,M |
| 31 | WI0805UC47N□ST-HF | 47 | 200 | 60@500MHz | 1700 | 0.31 | 500 | J,K,M |
| 32 | WI0805UC50N□ST-HF | 50 | 200 | 60@500MHz | 1650 | 0.34 | 500 | J,K,M |
| 33 | WI0805UC56N□ST-HF | 56 | 200 | 60@500MHz | 1600 | 0.34 | 500 | J,K,M |
| 34 | WI0805UC62N□ST-HF | 62 | 200 | 60@500MHz | 1450 | 0.36 | 500 | J,K,M |
| 35 | WI0805UC64N□ST-HF | 64 | 200 | 60@500MHz | 1500 | 0.38 | 500 | J,K,M |
| 36 | WI0805UC68N□ST-HF | 68 | 200 | 60@500MHz | 1500 | 0.38 | 500 | J,K,M |
| 37 | WI0805UC72N□ST-HF | 72 | 150 | 60@500MHz | 1400 | 0.38 | 500 | J,K,M |
| 38 | WI0805UC75N□ST-HF | 75 | 150 | 60@500MHz | 1400 | 0.4 | 450 | J,K,M |
| 39 | WI0805UC78N□ST-HF | 78 | 150 | 60@500MHz | 1400 | 0.4 | 450 | J,K,M |
| 40 | WI0805UC82N□ST-HF | 82 | 150 | 65@500MHz | 1330 | 0.42 | 400 | J,K,M |

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| APPROVED BY | CHECKED BY | DRAFT |
| 肖中华 | 黄志伟 | 谭晶晶 |



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4.2 Electrical Characteristics List

| NO. | Part Number | L | Freq | Q | SRF | Rdc | Irms | 产品公差 |
|-----|-------------------|------|-------|-----------|----------|---------|------|---------|
| | | (nH) | (MHz) | Min | (MHz)Min | (Ω) Max | (mA) | |
| 41 | WI0805UC91N□ST-HF | 91 | 150 | 65@500MHz | 1330 | 0.48 | 400 | J,K,M |
| 42 | WI0805UCR10□ST-HF | 100 | 150 | 65@500MHz | 1250 | 0.46 | 400 | G,J,K,M |
| 43 | WI0805UCR11□ST-HF | 110 | 150 | 50@250MHz | 1100 | 0.48 | 400 | G,J,K,M |
| 44 | WI0805UCR12□ST-HF | 120 | 150 | 50@250MHz | 1100 | 0.51 | 400 | G,J,K,M |
| 45 | WI0805UCR13□ST-HF | 130 | 100 | 50@250MHz | 920 | 0.56 | 400 | G,J,K,M |
| 46 | WI0805UCR14□ST-HF | 140 | 100 | 50@250MHz | 920 | 0.56 | 400 | G,J,K,M |
| 47 | WI0805UCR15□ST-HF | 150 | 100 | 50@250MHz | 920 | 0.56 | 400 | G,J,K,M |
| 48 | WI0805UCR16□ST-HF | 160 | 100 | 50@250MHz | 920 | 0.6 | 400 | G,J,K,M |
| 49 | WI0805UCR18□ST-HF | 180 | 100 | 50@250MHz | 920 | 0.64 | 400 | G,J,K,M |
| 50 | WI0805UCR20□ST-HF | 200 | 100 | 50@250MHz | 860 | 0.68 | 400 | G,J,K,M |
| 51 | WI0805UCR21□ST-HF | 210 | 100 | 50@250MHz | 820 | 0.7 | 400 | G,J,K,M |
| 52 | WI0805UCR22□ST-HF | 220 | 100 | 50@250MHz | 820 | 0.7 | 400 | G,J,K,M |
| 53 | WI0805UCR24□ST-HF | 240 | 100 | 44@250MHz | 770 | 1 | 350 | G,J,K,M |
| 54 | WI0805UCR25□ST-HF | 250 | 100 | 45@250MHz | 750 | 1.2 | 350 | G,J,K,M |
| 55 | WI0805UCR27□ST-HF | 270 | 100 | 48@250MHz | 730 | 1 | 350 | G,J,K,M |
| 56 | WI0805UCR28□ST-HF | 280 | 100 | 48@250MHz | 550 | 1.35 | 350 | G,J,K,M |
| 57 | WI0805UCR29□ST-HF | 290 | 150 | 48@250MHz | 450 | 1.4 | 310 | G,J,K,M |
| 58 | WI0805UCR30□ST-HF | 300 | 150 | 48@250MHz | 450 | 1.4 | 310 | G,J,K,M |
| 59 | WI0805UCR33□ST-HF | 330 | 100 | 48@250MHz | 650 | 1.4 | 310 | G,J,K,M |
| 60 | WI0805UCR36□ST-HF | 360 | 100 | 48@250MHz | 630 | 1.45 | 300 | G,J,K,M |
| 61 | WI0805UCR39□ST-HF | 390 | 100 | 48@250MHz | 600 | 1.5 | 290 | G,J,K,M |
| 62 | WI0805UCR42□ST-HF | 420 | 50 | 33@100MHz | 425 | 1.7 | 250 | G,J,K,M |
| 63 | WI0805UCR43□ST-HF | 430 | 50 | 33@100MHz | 425 | 1.7 | 250 | G,J,K,M |
| 64 | WI0805UCR47□ST-HF | 470 | 50 | 33@100MHz | 375 | 1.76 | 250 | G,J,K,M |
| 65 | WI0805UCR56□ST-HF | 560 | 25 | 23@50MHz | 330 | 1.9 | 230 | G,J,K,M |
| 66 | WI0805UCR62□ST-HF | 620 | 25 | 23@50MHz | 320 | 2.2 | 210 | G,J,K,M |
| 67 | WI0805UCR68□ST-HF | 680 | 25 | 23@50MHz | 310 | 2.2 | 190 | G,J,K,M |
| 68 | WI0805UCR75□ST-HF | 750 | 25 | 23@50MHz | 310 | 2.3 | 180 | G,J,K,M |
| 69 | WI0805UCR82□ST-HF | 820 | 25 | 23@50MHz | 310 | 2.35 | 180 | G,J,K,M |
| 70 | WI0805UCR88□ST-HF | 880 | 25 | 23@50MHz | 310 | 2.35 | 180 | G,J,K,M |
| 71 | WI0805UCR91□ST-HF | 910 | 25 | 22@50MHz | 250 | 2.45 | 170 | G,J,K,M |
| 72 | WI0805UC1R0□ST-HF | 1000 | 25 | 20@50MHz | 220 | 2.5 | 170 | G,J,K,M |
| 73 | WI0805UC1R2□ST-HF | 1200 | 25 | 20@25MHz | 180 | 2.9 | 150 | G,J,K,M |
| 74 | WI0805UC1R5□ST-HF | 1500 | 25 | 20@25MHz | 160 | 3.3 | 150 | G,J,K,M |
| 75 | WI0805UC1R6□ST-HF | 1600 | 25 | 20@25MHz | 140 | 3.4 | 150 | G,J,K,M |
| 76 | WI0805UC1R8□ST-HF | 1800 | 25 | 20@25MHz | 130 | 3.5 | 120 | G,J,K,M |
| 77 | WI0805UC2R2□ST-HF | 2200 | 25 | 20@25MHz | 100 | 4.5 | 120 | G,J,K,M |
| 78 | WI0805UC2R7□ST-HF | 2700 | 25 | 18@25MHz | 80 | 4.8 | 100 | G,J,K,M |
| 79 | WI0805UC3R3□ST-HF | 3300 | 25 | 18@25MHz | 50 | 6.8 | 50 | G,J,K,M |
| 80 | WI0805UC4R7□ST-HF | 4700 | 25 | 18@25MHz | 40 | 7 | 30 | G,J,K,M |

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| APPROVED BY | CHECKED BY | DRAFT |
| 肖中华 | 黄志伟 | 谭晶晶 |

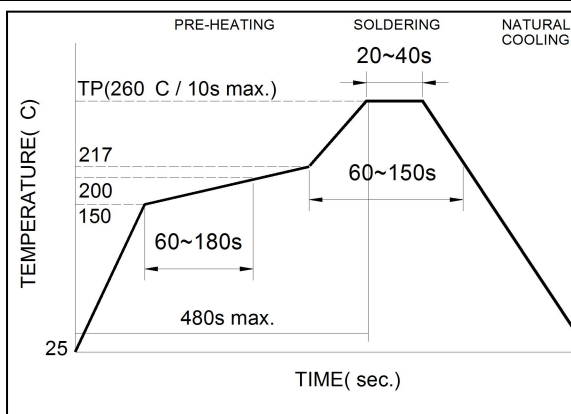


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| PART NO: | WI0805UC系列 | SN: | |
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5. SOLDERING CONDITIONS

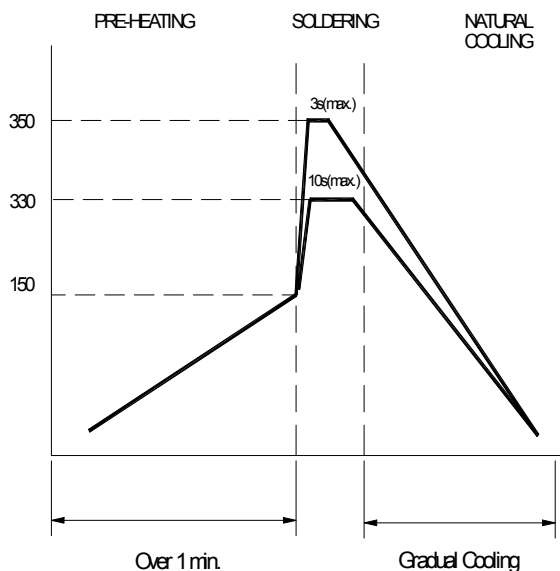
**Figure 1.
Re-flow
Soldering
(Lead Free)**



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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| APPROVED BY | CHECKED BY | DRAFT |
| 肖中华 | 黄志伟 | 谭晶晶 |

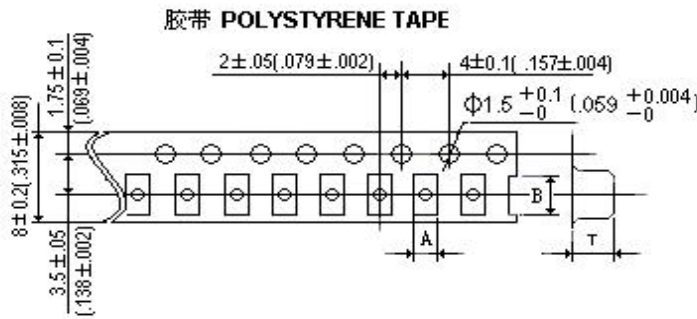
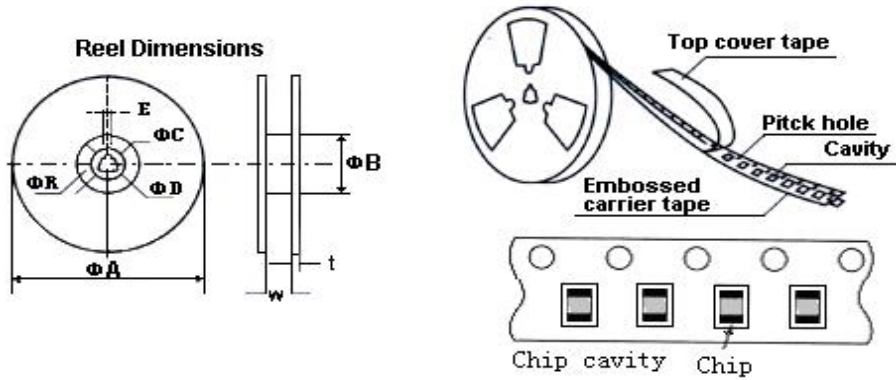


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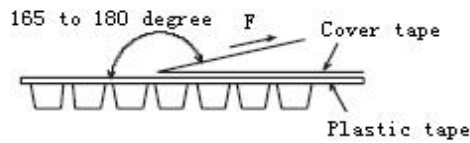
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|--------------|--------------------------|----------|-------------|
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| PART NO: | WI0805UC系列 | SN: | |
| CUSTOMER NO: | | DATE: | 2023年9月19日 |

6. PACKAGING(unit: mm)



Peeling off force
Full strength
0402~1210:20g~80g
Speed of peeling off:
300mm/min \pm 10%



| 胶带 | A | B | T |
|------|------|-----|------|
| 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

注意:

此物料不涉及汽车或相关产品方面的应用, 否则, 由此引起的一切品质和责任问题, 我司将概不承担。

| | | |
|-------------|------------|-------|
| APPROVED BY | CHECKED BY | DRAFT |
| 肖中华 | 黄志伟 | 谭晶晶 |

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[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)