

承認書

SPECIFICATION FOR APPROVAL

CUSTOMER: _____ 2144

DESCRIPTION: _____ WIRE WOUND CHIP INDUCTOR

DDY PART NO: _____ WI1210UC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

广东省博罗县洲际工业园梅园三路
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1.SHAPE & DIMENSION

UNIT:mm



| CODE | | L(MAX) | W(MAX) | T(MAX) | E(Typ.) | F(Typ.) | D(Typ.) |
|-----------|----------|--------|--------|--------|---------|---------|---------|
| DIMENSION | WI1210UC | 3.50 | 2.90 | 2.25 | 1.02 | 2.54 | 1.78 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

3. PART NUMBERING SYSTEM

WI **1210** **UC** **2R2** **J** **S** **T** **LF**
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) : G±2%; J±5%; K±10%; M±20%
- TERMINAL (端电极材料) : G-金端头; 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

4.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)

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



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5. 1Electrical Characteristics List

| NO. | Part Number | Inductance | Test Freq | Q | SRF | Rdc | Irms | 产品公差 |
|-----|-------------------|------------|-----------|-----------|----------|---------|----------|------------|
| | | (nH) | (MHz) | Min | (MHz)Min | (Ω) Max | (mA) Max | |
| 1 | WI1210UC10N□ST-HF | 10 | 100 | 40@300MHZ | 4000 | 0.08 | 1000 | J, K, M |
| 2 | WI1210UC12N□ST-HF | 12 | 100 | 40@300MHZ | 3200 | 0.08 | 1000 | J, K, M |
| 3 | WI1210UC15N□ST-HF | 15 | 100 | 40@300MHZ | 3200 | 0.2 | 1000 | J, K, M |
| 4 | WI1210UC18N□ST-HF | 18 | 100 | 50@300MHZ | 2800 | 0.1 | 1000 | J, K, M |
| 5 | WI1210UC22N□ST-HF | 22 | 100 | 50@300MHZ | 2200 | 0.1 | 1000 | J, K, M |
| 6 | WI1210UC27N□ST-HF | 27 | 100 | 50@300MHZ | 1800 | 0.11 | 1000 | J, K, M |
| 7 | WI1210UC33N□ST-HF | 33 | 100 | 55@300MHZ | 1800 | 0.11 | 1000 | J, K, M |
| 8 | WI1210UC39N□ST-HF | 39 | 100 | 55@300MHZ | 1500 | 0.12 | 1000 | J, K, M |
| 9 | WI1210UC43N□ST-HF | 43 | 100 | 55@300MHZ | 1500 | 0.12 | 1000 | J, K, M |
| 10 | WI1210UC47N□ST-HF | 47 | 100 | 55@300MHZ | 1500 | 0.13 | 1000 | J, K, M |
| 11 | WI1210UC56N□ST-HF | 56 | 100 | 55@300MHZ | 1450 | 0.14 | 1000 | J, K, M |
| 12 | WI1210UC68N□ST-HF | 68 | 100 | 55@300MHZ | 1200 | 0.15 | 900 | J, K, M |
| 13 | WI1210UC82N□ST-HF | 82 | 100 | 55@300MHZ | 1000 | 0.2 | 900 | J, K, M |
| 14 | WI1210UC91N□ST-HF | 91 | 100 | 60@300MHZ | 1100 | 0.2 | 1000 | J, K, M |
| 15 | WI1210UCR10□ST-HF | 100 | 100 | 55@300MHZ | 900 | 0.2 | 850 | G, J, K, M |
| 16 | WI1210UCR12□ST-HF | 120 | 100 | 60@300MHZ | 800 | 0.25 | 800 | G, J, K, M |
| 17 | WI1210UCR15□ST-HF | 150 | 100 | 60@300MHZ | 700 | 0.3 | 750 | G, J, K, M |
| 18 | WI1210UCR18□ST-HF | 180 | 50 | 60@300MHZ | 650 | 0.3 | 700 | G, J, K, M |
| 19 | WI1210UCR22□ST-HF | 220 | 50 | 60@300MHZ | 650 | 0.4 | 770 | G, J, K, M |
| 20 | WI1210UCR24□ST-HF | 240 | 50 | 40@300MHZ | 580 | 0.4 | 630 | G, J, K, M |
| 21 | WI1210UCR27□ST-HF | 270 | 50 | 40@300MHZ | 580 | 0.4 | 630 | G, J, K, M |
| 22 | WI1210UCR33□ST-HF | 330 | 50 | 45@150MHZ | 580 | 0.58 | 590 | G, J, K, M |
| 23 | WI1210UCR36□ST-HF | 360 | 50 | 45@150MHZ | 510 | 0.58 | 530 | G, J, K, M |

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| 肖中华 | 黄志伟 | 谭晶晶 |



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5. 2Electrical Characteristics List

| NO. | Part Number | Inductance | Test Freq | Q | SRF | Rdc | Irms | 产品公差 |
|-----|-------------------|------------|-----------|-----------|----------|---------|----------|------------|
| | | (nH) | (MHz) | Min | (MHz)Min | (Ω) Max | (mA) Max | |
| 24 | WI1210UCR39□ST-HF | 390 | 50 | 45@150MHZ | 510 | 0.58 | 530 | G, J, K, M |
| 25 | WI1210UCR47□ST-HF | 470 | 50 | 45@150MHZ | 480 | 1 | 490 | G, J, K, M |
| 26 | WI1210UCR56□ST-HF | 560 | 25 | 45@150MHZ | 420 | 1.1 | 460 | G, J, K, M |
| 27 | WI1210UCR68□ST-HF | 680 | 25 | 45@150MHZ | 400 | 1.2 | 430 | G, J, K, M |
| 28 | WI1210UCR82□ST-HF | 820 | 25 | 45@150MHZ | 370 | 2 | 400 | G, J, K, M |
| 29 | WI1210UC1R0□ST-HF | 1000 | 25 | 45@150MHZ | 340 | 1.85 | 320 | G, J, K, M |
| 30 | WI1210UC1R2□ST-HF | 1200 | 25 | 45@150MHZ | 220 | 2.3 | 300 | G, J, K, M |
| 31 | WI1210UC1R5□ST-HF | 1500 | 7.9 | 20@50MHZ | 160 | 2.7 | 310 | G, J, K, M |
| 32 | WI1210UC1R8□ST-HF | 1800 | 7.9 | 30@50MHZ | 160 | 3.5 | 310 | G, J, K, M |
| 33 | WI1210UC2R2□ST-HF | 2200 | 7.9 | 25@50MHZ | 130 | 2.41 | 310 | G, J, K, M |
| 34 | WI1210UC2R7□ST-HF | 2700 | 7.9 | 25@50MHZ | 110 | 3.5 | 300 | G, J, K, M |
| 35 | WI1210UC3R0□ST-HF | 3000 | 7.9 | 20@25MHZ | 110 | 3.5 | 300 | G, J, K, M |
| 36 | WI1210UC3R3□ST-HF | 3300 | 7.9 | 20@25MHZ | 60 | 3.6 | 290 | G, J, K, M |
| 37 | WI1210UC3R9□ST-HF | 3900 | 7.9 | 20@25MHZ | 60 | 4 | 290 | G, J, K, M |
| 38 | WI1210UC4R7□ST-HF | 4700 | 7.9 | 20@25MHZ | 60 | 5 | 280 | G, J, K, M |
| 39 | WI1210UC5R2□ST-HF | 5200 | 7.9 | 15@25MHZ | 50 | 6 | 250 | G, J, K, M |
| 40 | WI1210UC5R6□ST-HF | 5600 | 7.9 | 15@25MHZ | 50 | 6 | 250 | G, J, K, M |
| 41 | WI1210UC6R8□ST-HF | 6800 | 7.9 | 15@7.9MHZ | 40 | 9 | 230 | G, J, K, M |
| 42 | WI1210UC7R5□ST-HF | 7500 | 7.9 | 20@7.9MHZ | 50 | 9.5 | 170 | G, J, K, M |
| 43 | WI1210UC8R2□ST-HF | 8200 | 7.9 | 20@7.9MHZ | 50 | 9.5 | 170 | G, J, K, M |
| 44 | WI1210UC8R6□ST-HF | 8600 | 7.9 | 15@7.9MHZ | 40 | 9 | 200 | G, J, K, M |
| 45 | WI1210UC100□ST-HF | 10000 | 7.9 | 15@7.9MHZ | 30 | 10 | 150 | G, J, K, M |

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| 肖中华 | 黄志伟 | 谭晶晶 |

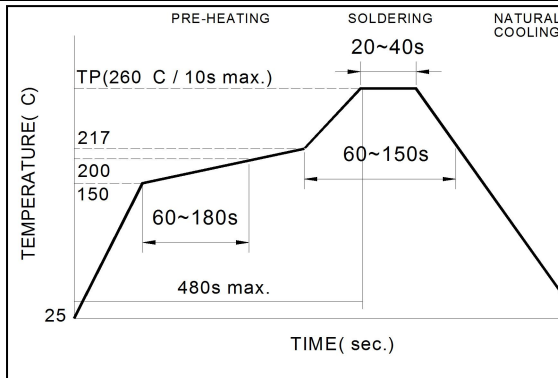


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6. SOLDERING CONDITIONS

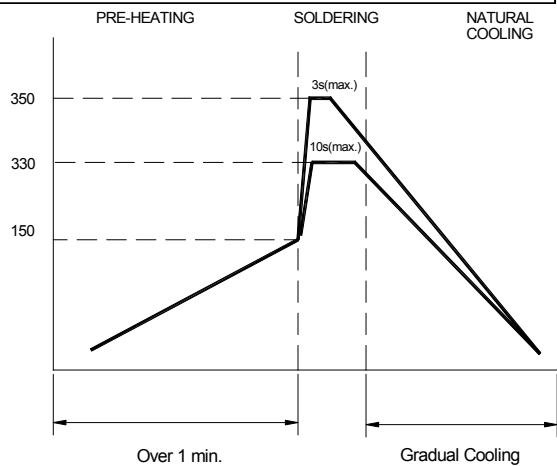
**Figure 1.
Re-flow
Soldering
(Lead Free)**



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 3.
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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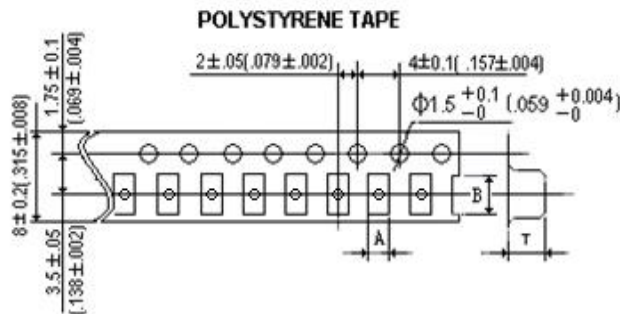
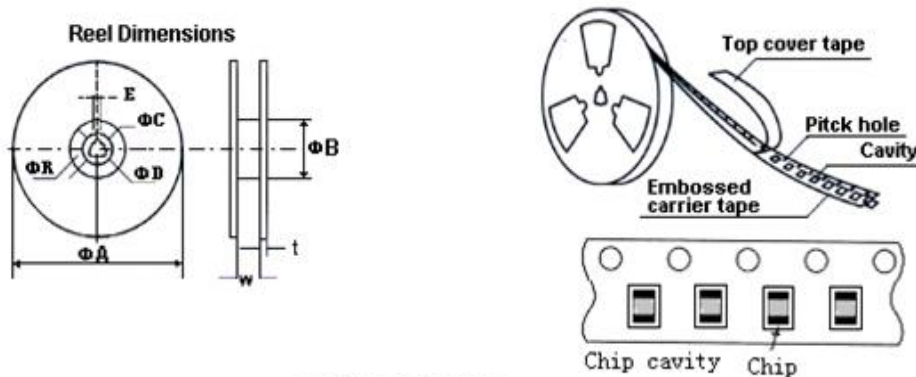


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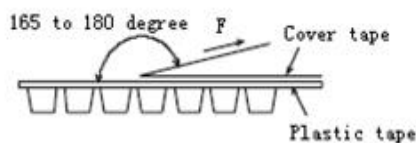
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7. PACKAGING(unit: mm)



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



| | | | | |
|----|------|------|-----|-----|
| | | A | B | T |
| 胶带 | 1210 | 2.96 | 3.6 | 2.4 |

| | | | | | | | | |
|------|----------|----------|----------|----------|---|-----|---|--|
| 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

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。

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

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