

## ■ 绕线型片式陶瓷体电感

Wire Wound Chip Ceramic Inductors

### ◆ 特征 Feature

- \* 体积小, 适合高密度表面贴装  
Minature Size,Suitable For SMT.
- \* 采用端电极结构, 很好地抑制了引线引起的寄生元件效应, 具有高可靠性  
Nusing Terminal Electrode Structure To Restrain The Parasitic Component Effect Quite Caused By Lead.
- \* 低电阻、高电流和高电感量  
High Q Value And Tight InductanceTolerance.
- \* 优良的焊接性和耐焊性  
Excellent In Solderability And Heat Resistance.



### ◆ 应用 Application

- \* 移动通信、PDA  
Portable Communication Equipment And PDA.
- \* 各种高频回路  
High Speed Electronic Device.
- \* 无线通信模块,无线局域网 W-LAN.  
RF Wireless Data Communication Module,W-LAN.

### ◆ 型号表示法 Part Number

|     |      |    |     |   |   |   |
|-----|------|----|-----|---|---|---|
| FHD | 0402 | UC | 068 | J | S | T |
| ①   | ②    | ③  | ④   | ⑤ | ⑥ | ⑦ |

①产品类型 Product Typel:

FHD: 绕线型片式电感器系列

FHD: Wire Wound Inductor Series

②尺寸 Dimensions: 0402(1.0x0.5mm)、0603 (1.6x0.8mm)

③材料代号 Material Code: UC ---陶瓷芯 Ceramic Core

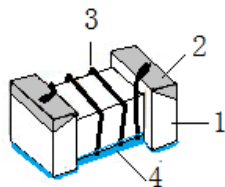
④标称电感量 Inductance: 1N0=1.0nH、010=10nH、R10=100nH、1R0=1.0μH

⑤标称电感值偏差 Tolerance: B---±0.1nH; C---±0.2nH; S---±0.3nH; D---±0.5nH; G---±2%; J---±5%; K---±10%; M---±20%

⑥电极表面镀层材料 Terminal: S---锡端头 Tin

⑦包装 Packaging: T: 编带包装 Tape & Reel B: 散装 Bulk

### ◆ 产品结构 Product Structure



1.瓷芯 Core

2.电极 Electrode

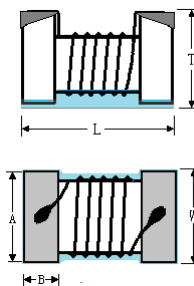
3.漆包线 Wire

4.封装层 Encapsulation Layer

**规格尺寸 Dimension**

单位 Unit: mm (inch)

| Size           | L<br>(Max)      | W<br>(Max)      | T<br>(Max)      | A               | B               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1005<br>(0402) | 1.19<br>(0.047) | 0.66<br>(0.026) | 0.60<br>(0.024) | 0.50<br>(0.020) | 0.23<br>(0.009) |
| 1608<br>(0603) | 1.80<br>(0.070) | 1.20<br>(0.043) | 1.10<br>(0.037) | 0.90<br>(0.035) | 0.31<br>(0.012) |


**电性能参数 ELECTRICAL CHARACTERISTICS**

0402 Type

| 型号<br>Part NO   | 电感量<br>Inductance<br>(nH) | 偏差范围<br>Tolerance | Q 值<br>Q<br>(Min) | 自谐振频率<br>SRF (MHZ)<br>Min | 最大直流电阻<br>Rdc (Ω)<br>Max | 额定电流<br>Idc(mA)<br>Max |
|-----------------|---------------------------|-------------------|-------------------|---------------------------|--------------------------|------------------------|
| FHD0402UC1N0□ST | 1.0@250MHz                | B,C,S,D,K         | 13@250MHz         | 10000                     | 0.045                    | 1360                   |
| FHD0402UC1N2□ST | 1.2@250MHz                | B,C,S,D,K         | 8@250MHz          | 10000                     | 0.135                    | 640                    |
| FHD0402UC1N8□ST | 1.8@250MHz                | C,S,D,K           | 16@250MHz         | 6000                      | 0.070                    | 1040                   |
| FHD0402UC1N9□ST | 1.9@250MHz                | C,S,D,K           | 16@250MHz         | 6000                      | 0.070                    | 1040                   |
| FHD0402UC2N0□ST | 2.0@250MHz                | C,S,D,K           | 18@250MHz         | 6000                      | 0.070                    | 1040                   |
| FHD0402UC2N2□ST | 2.2@250MHz                | C,S,D,K           | 18@250MHz         | 6000                      | 0.070                    | 960                    |
| FHD0402UC2N4□ST | 2.4@250MHz                | C,S,D,K           | 16@250MHz         | 6000                      | 0.080                    | 790                    |
| FHD0402UC2N5□ST | 2.5@250MHz                | C,S,D,K           | 15@250MHz         | 6000                      | 0.120                    | 640                    |
| FHD0402UC2N7□ST | 2.7@250MHz                | C,S,D,K           | 15@250MHz         | 6000                      | 0.120                    | 640                    |
| FHD0402UC2N9□ST | 2.9@250MHz                | C,S,D,K           | 8@250MHz          | 6000                      | 0.300                    | 400                    |
| FHD0402UC3N0□ST | 3.0@250MHz                | C,S,D,K           | 8@250MHz          | 6000                      | 0.300                    | 400                    |
| FHD0402UC3N3□ST | 3.3@250MHz                | C,S,D,K           | 20@250MHz         | 6000                      | 0.066                    | 840                    |
| FHD0402UC3N6□ST | 3.6@250MHz                | B,C,S,D,J,K       | 20@250MHz         | 6000                      | 0.066                    | 840                    |
| FHD0402UC3N9□ST | 3.9@250MHz                | B,C,S,D,J,K       | 20@250MHz         | 6000                      | 0.066                    | 840                    |
| FHD0402UC4N0□ST | 4.0@250MHz                | B,C,S,D,J,K       | 20@250MHz         | 6000                      | 0.066                    | 840                    |
| FHD0402UC4N2□ST | 4.2@250MHz                | B,C,S,D,J,K       | 20@250MHz         | 6000                      | 0.091                    | 700                    |
| FHD0402UC4N3□ST | 4.3@250MHz                | C,S,D,J,K         | 20@250MHz         | 6000                      | 0.091                    | 700                    |
| FHD0402UC4N7□ST | 4.7@250MHz                | B,C,S,D,J,K       | 18@250MHz         | 4500                      | 0.200                    | 640                    |
| FHD0402UC5N1□ST | 5.1@250MHz                | B,C,S,D,J,K       | 18@250MHz         | 4800                      | 0.083                    | 800                    |
| FHD0402UC5N6□ST | 5.6@250MHz                | C,S,D,J,K         | 20@250MHz         | 4800                      | 0.083                    | 760                    |
| FHD0402UC6N2□ST | 6.2@250MHz                | C,S,D,J,K         | 23@250MHz         | 4800                      | 0.083                    | 760                    |
| FHD0402UC6N8□ST | 6.8@250MHz                | G,J,K             | 23@250MHz         | 4800                      | 0.260                    | 680                    |
| FHD0402UC7N5□ST | 7.5@250MHz                | G,J,K             | 23@250MHz         | 4800                      | 0.100                    | 680                    |
| FHD0402UC8N2□ST | 8.2@250MHz                | G,J,K             | 25@250MHz         | 4400                      | 0.100                    | 680                    |
| FHD0402UC8N7□ST | 8.7@250MHz                | G,J,K             | 25@250MHz         | 4100                      | 0.200                    | 480                    |
| FHD0402UC9N0□ST | 9.0@250MHz                | G,J,K             | 25@250MHz         | 4160                      | 0.100                    | 680                    |
| FHD0402UC9N5□ST | 9.5@250MHz                | G,J,K             | 25@250MHz         | 4000                      | 0.200                    | 480                    |
| FHD0402UC010□ST | 10@250MHz                 | G,J,K             | 25@250MHz         | 3900                      | 0.200                    | 480                    |
| FHD0402UC011□ST | 11@250MHz                 | G,J,K             | 25@250MHz         | 3680                      | 0.120                    | 640                    |
| FHD0402UC012□ST | 12@250MHz                 | J,K               | 25@250MHz         | 3600                      | 0.120                    | 640                    |

|                 |            |       |           |      |       |     |
|-----------------|------------|-------|-----------|------|-------|-----|
| FHD0402UC013□ST | 13@250MHz  | G,J,K | 25@250MHz | 3450 | 0.210 | 440 |
| FHD0402UC015□ST | 15@250MHz  | G,J,K | 25@250MHz | 3280 | 0.300 | 560 |
| FHD0402UC016□ST | 16@250MHz  | G,J,K | 25@250MHz | 3100 | 0.220 | 560 |
| FHD0402UC018□ST | 18@250MHz  | G,J,K | 25@250MHz | 3100 | 0.230 | 420 |
| FHD0402UC019□ST | 19@250MHz  | G,J,K | 25@250MHz | 3040 | 0.200 | 480 |
| FHD0402UC020□ST | 20@250MHz  | G,J,K | 25@250MHz | 3000 | 0.250 | 420 |
| FHD0402UC022□ST | 22@250MHz  | G,J,K | 25@250MHz | 2800 | 0.300 | 400 |
| FHD0402UC023□ST | 23@250MHz  | G,J,K | 22@250MHz | 2720 | 0.380 | 310 |
| FHD0402UC024□ST | 24@250MHz  | G,J,K | 25@250MHz | 2700 | 0.300 | 400 |
| FHD0402UC027□ST | 27@250MHz  | G,J,K | 24@250MHz | 2480 | 0.520 | 280 |
| FHD0402UC030□ST | 30@250MHz  | G,J,K | 25@250MHz | 2350 | 0.500 | 400 |
| FHD0402UC033□ST | 33@250MHz  | G,J,K | 24@250MHz | 2350 | 0.650 | 350 |
| FHD0402UC036□ST | 36@250MHz  | G,J,K | 25@250MHz | 2320 | 0.600 | 250 |
| FHD0402UC039□ST | 39@250MHz  | G,J,K | 25@250MHz | 2100 | 0.750 | 200 |
| FHD0402UC040□ST | 40@250MHz  | G,J,K | 25@250MHz | 2240 | 0.600 | 220 |
| FHD0402UC043□ST | 43@250MHz  | J,K   | 25@250MHz | 2030 | 0.810 | 100 |
| FHD0402UC047□ST | 47@250MHz  | G,J,K | 25@250MHz | 2100 | 0.830 | 150 |
| FHD0402UC051□ST | 51@250MHz  | J,K   | 25@250MHz | 1750 | 0.820 | 100 |
| FHD0402UC056□ST | 56@250MHz  | G,J,K | 25@250MHz | 1760 | 0.970 | 100 |
| FHD0402UC062□ST | 62@250MHz  | G,J,K | 25@250MHz | 1620 | 1.120 | 100 |
| FHD0402UC068□ST | 68@250MHz  | G,J,K | 25@250MHz | 1620 | 1.120 | 100 |
| FHD0402UC075□ST | 75@250MHz  | G,J,K | 25@250MHz | 1400 | 1.630 | 50  |
| FHD0402UC082□ST | 82@250MHz  | G,J,K | 25@250MHz | 1260 | 1.700 | 50  |
| FHD0402UCR10□ST | 100@250MHz | G,J,K | 25@250MHz | 1160 | 2.000 | 30  |
| FHD0402UCR12□ST | 120@250MHz | G,J,K | 25@250MHz | 1100 | 2.200 | 30  |

**0603Type**

| 型号<br>Part NO   | 电感量<br>Inductance<br>(nH) | 偏差范围<br>Tolerance | Q 值<br>Q<br>(Min) | 自谐振频率<br>SRF (MHZ)<br>Min | 最大直流电阻<br>Rdc (Ω)<br>Max | 额定电流<br>I <sub>dc</sub> (mA)<br>Max |
|-----------------|---------------------------|-------------------|-------------------|---------------------------|--------------------------|-------------------------------------|
| FHD0603UC1N6□ST | 1.6@250MHz                | C,S,D,K           | 18@250MHz         | 12500                     | 0.040                    | 700                                 |
| FHD0603UC1N7□ST | 1.7@250MHz                | B,C,S,D,K         | 18@250MHz         | 12500                     | 0.045                    | 700                                 |
| FHD0603UC1N8□ST | 1.8@250MHz                | C,S,D,K           | 16@250MHz         | 12500                     | 0.045                    | 700                                 |
| FHD0603UC2N0□ST | 2.0@250MHz                | C,S,D,K           | 12@250MHz         | 10000                     | 0.090                    | 700                                 |
| FHD0603UC2N2□ST | 2.2@250MHz                | C,S,D,K           | 12@250MHz         | 10000                     | 0.090                    | 700                                 |
| FHD0603UC3N3□ST | 3.3@250MHz                | S,D,K             | 20@250MHz         | 5900                      | 0.075                    | 700                                 |
| FHD0603UC3N6□ST | 3.6@250MHz                | B,C,S,D,K         | 22@250MHz         | 5900                      | 0.075                    | 700                                 |
| FHD0603UC3N9□ST | 3.9@250MHz                | B,C,S,D,K         | 22@250MHz         | 6900                      | 0.080                    | 700                                 |
| FHD0603UC4N3□ST | 4.3@250MHz                | B,C,S,D,K         | 22@250MHz         | 5900                      | 0.075                    | 700                                 |
| FHD0603UC4N7□ST | 4.7@250MHz                | B,C,S,D,K         | 20@250MHz         | 5800                      | 0.116                    | 700                                 |
| FHD0603UC5N1□ST | 5.1@250MHz                | B,C,S,D,K         | 20@250MHz         | 5700                      | 0.120                    | 700                                 |
| FHD0603UC6N0□ST | 6.0@250MHz                | C,S,D,K           | 27@250MHz         | 5700                      | 0.110                    | 700                                 |
| FHD0603UC6N2□ST | 6.2@250MHz                | C,S,D,K           | 27@250MHz         | 5700                      | 0.110                    | 700                                 |
| FHD0603UC6N8□ST | 6.8@250MHz                | G,J,K             | 27@250MHz         | 5800                      | 0.110                    | 700                                 |

|                 |            |       |           |      |       |     |
|-----------------|------------|-------|-----------|------|-------|-----|
| FHD0603UC7N5□ST | 7.5@250MHz | G,J,K | 28@250MHz | 4800 | 0.110 | 700 |
| FHD0603UC8N2□ST | 8.2@250MHz | G,J,K | 28@250MHz | 4700 | 0.120 | 700 |
| FHD0603UC8N7□ST | 8.7@250MHz | G,J,K | 28@250MHz | 4600 | 0.120 | 700 |
| FHD0603UC9N1□ST | 9.1@250MHz | G,J,K | 26@250MHz | 4500 | 0.150 | 700 |
| FHD0603UC9N5□ST | 9.5@250MHz | G,J,K | 26@250MHz | 5400 | 0.150 | 700 |
| FHD0603UC010□ST | 10@250MHz  | G,J,K | 31@250MHz | 4800 | 0.130 | 700 |
| FHD0603UC011□ST | 11@250MHz  | G,J,K | 33@250MHz | 4000 | 0.130 | 700 |
| FHD0603UC012□ST | 12@250MHz  | G,J,K | 35@250MHz | 4000 | 0.130 | 700 |
| FHD0603UC013□ST | 13@250MHz  | G,J,K | 30@250MHz | 4000 | 0.140 | 700 |
| FHD0603UC014□ST | 14@250MHz  | G,J,K | 35@250MHz | 4000 | 0.140 | 700 |
| FHD0603UC015□ST | 15@250MHz  | G,J,K | 30@250MHz | 4000 | 0.150 | 700 |
| FHD0603UC016□ST | 16@250MHz  | G,J,K | 34@250MHz | 3300 | 0.160 | 700 |
| FHD0603UC018□ST | 18@250MHz  | G,J,K | 35@250MHz | 3100 | 0.170 | 700 |
| FHD0603UC020□ST | 20@250MHz  | G,J,K | 38@250MHz | 3000 | 0.190 | 700 |
| FHD0603UC022□ST | 22@250MHz  | G,J,K | 38@250MHz | 3000 | 0.190 | 700 |
| FHD0603UC024□ST | 24@250MHz  | G,J,K | 37@250MHz | 2650 | 0.200 | 700 |
| FHD0603UC025□ST | 25@250MHz  | G,J,K | 38@250MHz | 2600 | 0.210 | 700 |
| FHD0603UC027□ST | 27@250MHz  | G,J,K | 36@250MHz | 2800 | 0.220 | 600 |
| FHD0603UC030□ST | 30@250MHz  | G,J,K | 37@250MHz | 2250 | 0.220 | 600 |
| FHD0603UC033□ST | 33@250MHz  | J,K   | 36@250MHz | 2300 | 0.220 | 600 |
| FHD0603UC036□ST | 36@250MHz  | G,J,K | 36@250MHz | 2080 | 0.250 | 600 |
| FHD0603UC039□ST | 39@250MHz  | G,J,K | 40@250MHz | 2200 | 0.250 | 600 |
| FHD0603UC043□ST | 43@250MHz  | G,J,K | 36@250MHz | 2000 | 0.280 | 600 |
| FHD0603UC047□ST | 47@200MHz  | G,J,K | 36@200MHz | 2000 | 0.280 | 600 |
| FHD0603UC049□ST | 49@200MHz  | G,J,K | 36@200MHz | 2000 | 0.280 | 600 |
| FHD0603UC050□ST | 50@200MHz  | G,J,K | 36@200MHz | 1900 | 0.295 | 600 |
| FHD0603UC051□ST | 51@200MHz  | G,J,K | 36@200MHz | 1900 | 0.300 | 600 |
| FHD0603UC056□ST | 56@200MHz  | G,J,K | 38@200MHz | 1900 | 0.280 | 600 |
| FHD0603UC068□ST | 68@200MHz  | G,J,K | 36@200MHz | 1700 | 0.340 | 600 |
| FHD0603UC072□ST | 72@150MHz  | G,J,K | 34@150MHz | 1700 | 0.530 | 400 |
| FHD0603UC075□ST | 75@150MHz  | G,J,K | 30@150MHz | 1400 | 0.600 | 400 |
| FHD0603UC082□ST | 82@150MHz  | G,J,K | 34@150MHz | 1700 | 0.550 | 400 |
| FHD0603UC091□ST | 91@150MHz  | G,J,K | 30@150MHz | 1400 | 0.630 | 400 |
| FHD0603UCR10□ST | 100@150MHz | G,J,K | 30@150MHz | 1400 | 0.630 | 400 |
| FHD0603UCR11□ST | 110@150MHz | G,J,K | 32@150MHz | 1350 | 0.670 | 300 |
| FHD0603UCR12□ST | 120@150MHz | G,J,K | 32@150MHz | 1300 | 0.730 | 300 |
| FHD0603UCR15□ST | 150@150MHz | G,J,K | 28@150MHz | 990  | 0.800 | 280 |
| FHD0603UCR16□ST | 160@100MHz | G,J,K | 25@100MHz | 990  | 1.250 | 250 |
| FHD0603UCR18□ST | 180@100MHz | G,J,K | 25@100MHz | 990  | 1.450 | 240 |
| FHD0603UCR20□ST | 200@100MHz | G,J,K | 25@100MHz | 900  | 1.550 | 200 |
| FHD0603UCR22□ST | 220@100MHz | G,J,K | 25@100MHz | 900  | 2.100 | 200 |
| FHD0603UCR25□ST | 250@100MHz | G,J,K | 25@100MHz | 822  | 3.550 | 120 |
| FHD0603UCR27□ST | 270@100MHz | G,J,K | 24@100MHz | 900  | 2.300 | 170 |
| FHD0603UCR30□ST | 300@100MHz | G,J,K | 24@100MHz | 1000 | 3.000 | 100 |
| FHD0603UCR33□ST | 330@100MHz | G,J,K | 25@100MHz | 900  | 3.890 | 100 |
| FHD0603UCR39□ST | 390@100MHz | G,J,K | 25@100MHz | 800  | 4.350 | 100 |
| FHD0603UCR47□ST | 470@100MHz | G,J,K | 25@100MHz | 700  | 7.000 | 75  |

**◆可靠性测试方法 Reliability Test Method**

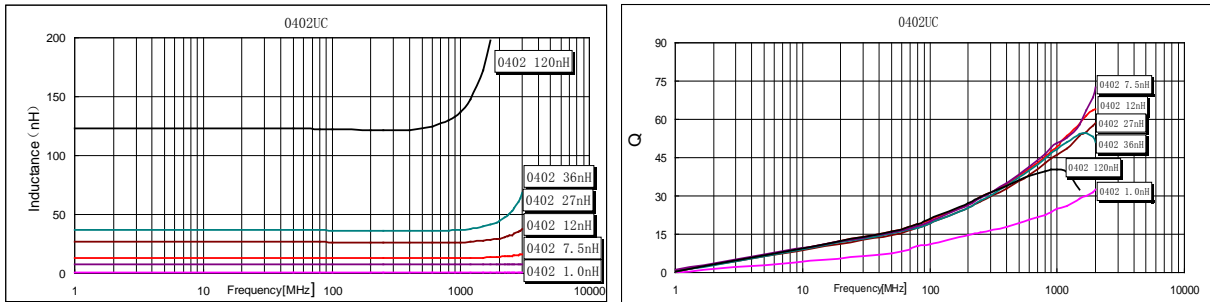
| 序号<br>No.                | 项目<br>Items                     | 要求<br>Requirements   | 试验方法及备注<br>Test Methods and Remarks   |           |       |               |     |               |     |                          |  |                  |  |
|--------------------------|---------------------------------|--|---|-----------|-------|---------------|-----|---------------|-----|--------------------------|--|------------------|--|
| 1                        | 可焊性<br>Solder ability           | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②端电极表面焊锡覆盖率。<br>Electrode surface solder coverage.<br>FHD-UC series: $\geq 90\%$ 。   | 在 $245\pm 3^{\circ}\text{C}$ 熔融的焊锡 (96.5%Sn/3.0%Ag/0.5%Cu) 中浸置 $3\pm 0.3\text{s}$ 。<br>Dip pads in flux and dip in solder pot(96.5Sn/3.0Ag/0.5Cu)at $245\pm 3^{\circ}\text{C}$ for $3\pm 0.3\text{s}$ .   |           |       |               |     |               |     |                          |  |                  |  |
| 2                        | 耐焊接热<br>Resistance to Soldering | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②感量变化不超过 $\pm 5\%$ ;<br>Inductance shall not change more than $\pm 5\%$ ;<br>③Q 值变化不超过 $\pm 10\%$ 。<br>Q shall not change more than $\pm 10\%$ 。 | 在 $260\pm 5^{\circ}\text{C}$ 熔融的焊锡 (96.5%Sn/3.0%Ag/0.5%Cu) 中浸置 $10\pm 1\text{s}$ 。<br>Dip pads in flux and dip in solder pot(96.5Sn/3.0Ag/0.5Cu)at $260\pm 5^{\circ}\text{C}$ for $10\pm 1\text{s}$ .   |           |       |               |     |               |     |                          |  |                  |  |
| 3                        | 振动<br>Vibration                 | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②感量变化不超过 $\pm 5\%$ ;<br>Inductance shall not change more than $\pm 5\%$ ;<br>③Q 值变化不超过 $\pm 10\%$ 。<br>Q shall not change more than $\pm 10\%$ 。 | 振幅 1.5mm, 频率 10~55Hz, 每个方向(X、Y、Z)保持 2 小时。Inductors shall be subjected to vibration of 1.5mm amplitude frequency 10~55Hz (10Hz to 55Hz to 10Hz in a period of 1 minute) for 2h in each of three(X、Y、Z) axes.   |           |       |               |     |               |     |                          |  |                  |  |
| 4                        | 端电极强度<br>Adhesion of electrode  | ①试验后端电极无脱落;<br>The end electrode did not fall off after the test.<br>②外观无可见损伤痕迹。<br>No visible mechanical damage.  | 将产品焊在 PCB 板上, 按下图、表所示方向及要求施加作用力。Weld the product on the PCB board, and apply force as shown in the diagram, direction and requirement.<br> <table border="1" data-bbox="989 1624 1452 1848"> <thead> <tr> <th>尺寸规格 Size</th> <th>施加力要求</th> </tr> </thead> <tbody> <tr> <td>0402UC Series</td> <td>5 N</td> </tr> <tr> <td>0603UC Series</td> <td>7 N</td> </tr> <tr> <td colspan="2">Keep time: (10<math>\pm</math>1)s</td> </tr> <tr> <td colspan="2">Speed: 1.0 mm/s.</td> </tr> </tbody> </table> | 尺寸规格 Size | 施加力要求 | 0402UC Series | 5 N | 0603UC Series | 7 N | Keep time: (10 $\pm$ 1)s |  | Speed: 1.0 mm/s. |  |
| 尺寸规格 Size                | 施加力要求                           |  |   |           |       |               |     |               |     |                          |  |                  |  |
| 0402UC Series            | 5 N                             |  |   |           |       |               |     |               |     |                          |  |                  |  |
| 0603UC Series            | 7 N                             |  |   |           |       |               |     |               |     |                          |  |                  |  |
| Keep time: (10 $\pm$ 1)s |                                 |  |   |           |       |               |     |               |     |                          |  |                  |  |
| Speed: 1.0 mm/s.         |                                 |  |   |           |       |               |     |               |     |                          |  |                  |  |

|    |                                    |   |  |
|----|------------------------------------|---|--|
| 5  | 耐低温<br>Low temperature resistance  | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②感量变化不超过±5%;<br>Inductance shall not change more than ±5%;<br>③Q 值变化不超过±10%。<br>Q shall not change more than±10%. | ①FHD-UC 系列产品放置于温度-55±2°C的环境中存放<br>+24<br>1000 —0 h<br>FHD-UC series shall be subjected to-55±2°C for 1000<br>+24<br>—0 h   |
| 6  | 耐高温<br>High temperature resistance | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②感量变化不超过±5%;<br>Inductance shall not change more than ±5%;<br>③Q 值变化不超过±10%。<br>Q shall not change more than±10%. | ①FHD-UC 系列产品放置于温度+125±5°C的环境中存放<br>+24<br>1000 —0 h<br>FHD-UC series shall be subjected to +125±5°C for1000<br>+24<br>—0 h   |
| 7  | 温度冲击<br>Temperature Shock          | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②感量变化不超过±5%;<br>Inductance shall not change more than ±5%;<br>③Q 值变化不超过±10%。<br>Q shall not change more than±10%. | ①FHD-UC 系列: +125°C 30分钟 ↔ -40°C 30分钟,<br>循环 100 次;<br>FHD-UC series : +125°C 30minutes ↔ -40°C<br>30minutes 100 Cycles.  |
| 8  | 高温负载<br>High temperature load      | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②感量变化不超过±5%;<br>Inductance shall not change more than ±5%;<br>③Q 值变化不超过±10%。<br>Q shall not change more than±10%. | ①FHD-UC 系列产品加额定电流在 125±2°C温度条件下存<br>+24<br>放 1000 —0 h<br>FHD-UC series shall be store at 125±2°C for 1000 —0 h<br>with rated current applied.   |
| 9  | 恒定湿热<br>Static Humidity            | ①外观无可见损伤痕迹;<br>No visible mechanical damage.<br>②感量变化不超过±5%;<br>Inductance shall not change more than ±5%;<br>③Q 值变化不超过±10%。<br>Q shall not change more than±10%. | 将电感器放置于湿度 90%~95%,温度 60±2°C的环境中<br>+24<br>存放 1000 —0 h<br>Inductors shall be subjected to 90%~95%RH. at 60±2°C<br>+24<br>for 1000 —0 h   |
| 10 | 抗弯强度<br>Bending strength           | 外观无可见损伤痕迹;<br>No visible mechanical damage.   | ①将电感器安装于试验基板上; 在垂直方向施加力(如下图<br>所示)。Install the inductor on the test substrate; Apply force<br>in the vertical direction (as shown below).<br>②该板应在(1±0.5) mm/s 的弯曲速率向下弯曲(2±0.2)<br>mm, 保持时间(20±1) s。The epoxy plate should bend<br>down to (2±0.2) mm at the bending rate of (1±0.5) |

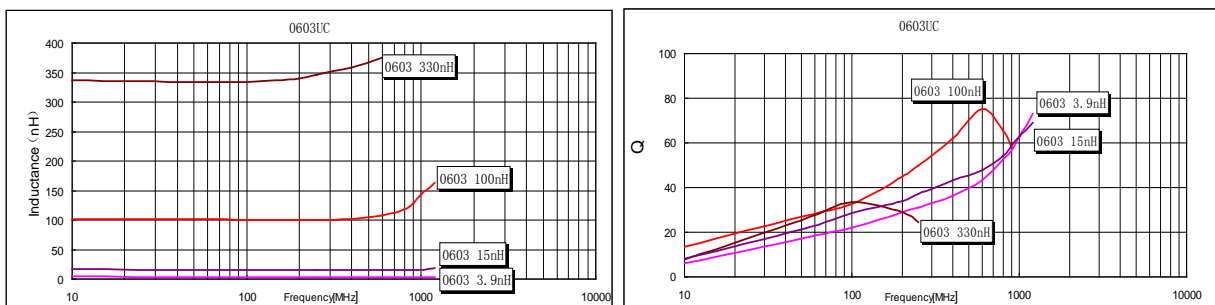
|    |                                    |   |  |
|----|------------------------------------|---|--|
|    |                                    |   | <p>mm/s, Keep time (20±1) sec.</p>   |
| 11 | <p>耐溶剂性<br/>Solvent Resistance</p> | <p>①外观无可见损伤痕迹;<br/>No visible mechanical damage.</p> <p>②感量变化不超过±5%;<br/>Inductance shall not change more than ±5%;</p> <p>③Q 值变化不超过±10%.<br/>Q shall not change more than±10%.</p> | <p>将元件浸泡在 23±5°C 的异丙醇溶液中, 保持 5±0.5 分钟。<br/>Soak in the element 23±5°C in isopropyl alcohol solution, keep 5±0.5 min.</p> |

◆产品特性曲线图 Product Characteristic Curve

FHD0402 Type.

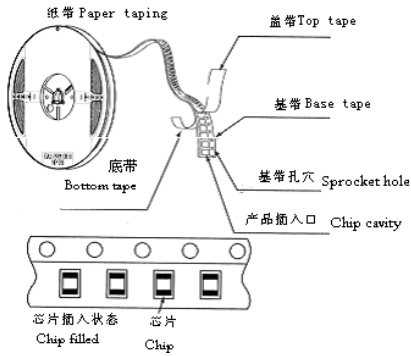


FHD0603 Type.

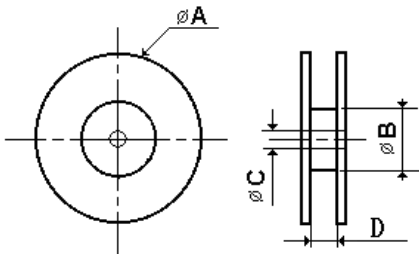


◆包装 Packaging

\*编带图 Taping drawings

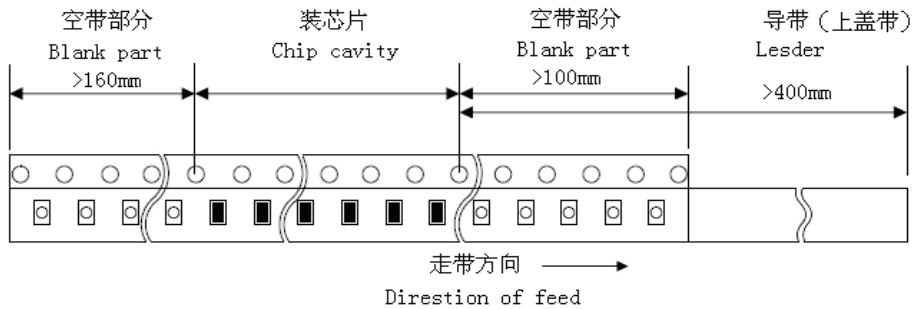


\*卷盘尺寸 Reel dimensions (Unit:mm)



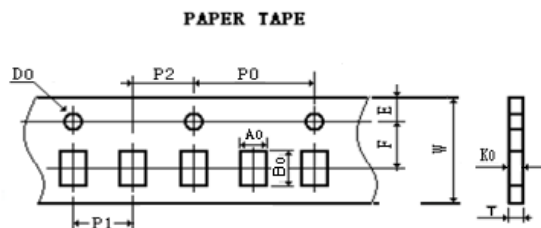
| Part NO.  | $\varnothing A$ typ. | $\varnothing B$ typ. | $\varnothing C$ typ. | D typ. |
|-----------|----------------------|----------------------|----------------------|--------|
| 0402-0603 | 178                  | 60                   | 13                   | 8.4    |

\*导带及空格部分 Leader and blank portion



\*编带尺寸 Taping dimensions (Unit: mm)

纸带 Paper tape





| Part NO. | W    | E    | F    | D0   | P0 | P1 | P2 | P0x10 | A0   | B0   | K0   | T    |
|----------|------|------|------|------|----|----|----|-------|------|------|------|------|
| 0402     | 8.00 | 1.75 | 3.50 | 1.55 | 4  | 2  | 2  | 40    | 0.66 | 1.20 | 0.60 | 0.75 |
| 0603     | 8.00 | 1.75 | 3.50 | 1.55 | 4  | 4  | 2  | 40    | 1.20 | 1.90 | 1.05 | 1.15 |

\*包装数量 (单位: 粒) Packaging number (Unit: Pcs )

| 尺寸 Size          |        | 0402   | 0603   |
|------------------|--------|--------|--------|
| 每卷数量 Per Reel    |        | 5000   | 4000   |
| 每盒数量<br>Per Box  | 3 卷盒   | 15000  | 12000  |
|                  | 5 卷盒   | 25000  | 20000  |
|                  | 10 卷盒  | 50000  | 40000  |
| 每箱数量<br>Per Case | 1.5 盒箱 | 75000  | 60000  |
|                  | 3 盒箱   | 150000 | 120000 |
|                  | 4 盒箱   | 200000 | 160000 |
|                  | 5 盒箱   | 300000 | 240000 |

单击下面可查看定价，库存，交付和生命周期等信息

[>>FH\(风华高科\)](#)