



# 承 认 书

## APPROVAL SHEET

客 户 名 称:

Customer

/

产 品 名 称:

Part Name

绕线型片式电感器

Wire Wound Chip inductor

产 品 规 格:

Specification

FHW Series

版 本 号:

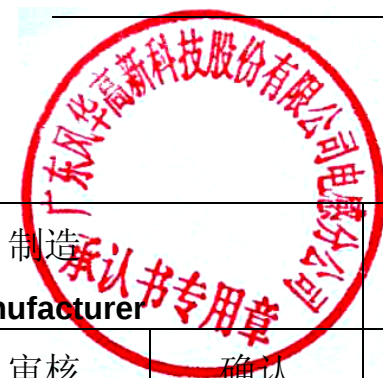
Version No.

16.01

日 期:

DATE

2016.04.05



| 制造<br>Manufacturer |                  |                  | 客户<br>Customer |                  |                   |
|--------------------|------------------|------------------|----------------|------------------|-------------------|
| 拟制<br>Draft by     | 审核<br>Checked by | 确认<br>Approve by | 检验<br>Check by | 审核<br>Checked by | 批准<br>Approval by |
| 林晓华                | 徐雪枫              | 区军沛              |                |                  |                   |

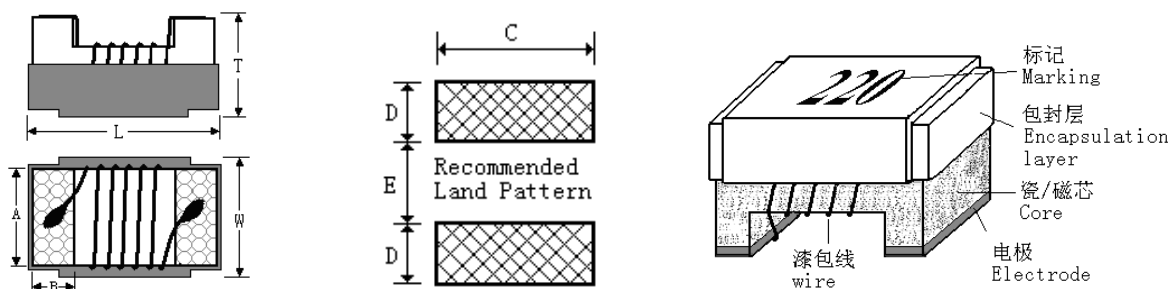


| 序号<br>No | 目 录<br>TABLE OF CONTENTS                  |
|----------|-------------------------------------------|
| 1        | 履 历 表 Resume                              |
| 2        | 外形尺寸与内部结构 Dimension & Inner-configuration |
| 3        | 产品品名构成 Product Spec. Model                |
| 4        | 电性能参数表 Electrical Characteristics List    |
| 5        | 可靠性试验项目 Reliability Testing Items         |
| 6        | 产品包装 Packaging                            |
| 7        | 推荐焊接条件 Recommend Soldering Conditions     |
| 8        | 清洗 Cleaning                               |
| 9        | 存储要求 Storage Requirements                 |
| 10       | ODS（消耗臭氧层物质）的使用情况 Usage Of ODS            |
| 11       | 注意事项 Notes                                |

[illegible]



## 2 外形尺寸与内部结构 Dimension & Inner-configuration:



| 序号 No. | 部位 Component           | 材料 Material                                                                                    |                    |                |                 |
|--------|------------------------|------------------------------------------------------------------------------------------------|--------------------|----------------|-----------------|
| 1      | 瓷/磁芯Core               | 陶瓷芯电感Ceramic Core: 陶瓷体Al <sub>2</sub> O <sub>3</sub><br>铁氧体芯电感Ferrite Core: 镍锌铁氧体Ni-Zn ferrite |                    |                |                 |
| 2      | 电极Electrode            | 分类<br>Type                                                                                     | 底层<br>Layout 0     | 中层<br>Layout 1 | 表层<br>Layout 2  |
|        |                        | 陶瓷芯电感<br>Ceramic core                                                                          | 钨或钼锰<br>W or Mo-Mn | 镍<br>Ni        | 金或锡<br>Au or Sn |
|        |                        | 铁氧体芯电感<br>Ferrite core                                                                         | 银<br>Ag            | 镍<br>Ni        | 锡<br>Sn         |
| 3      | 漆包线wire                | 铜Cu                                                                                            |                    |                |                 |
| 4      | 包封层encapsulation layer | 树脂Epoxy                                                                                        |                    |                |                 |
| 5      | 标识Marking              | 树脂Epoxy                                                                                        |                    |                |                 |

单位 Unit: mm (inch)

| 型号 Size    | L (Max)     | W (Max)     | T (Max)     | A           | B           | C           | D           | E           |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1005(0402) | 1.19(0.047) | 0.66(0.026) | 0.60(0.024) | 0.50(0.020) | 0.23(0.009) | 0.66(0.026) | 0.36(0.014) | 0.46(0.018) |
| 1608(0603) | 1.78(0.070) | 1.10(0.043) | 0.95(0.037) | 0.76(0.030) | 0.30(0.012) | 1.02(0.040) | 0.64(0.025) | 0.64(0.025) |
| 2012(0805) | 2.30(0.091) | 1.70(0.067) | 1.52(0.060) | 1.27(0.050) | 0.50(0.020) | 1.78(0.070) | 1.02(0.040) | 0.76(0.030) |
| 2520(1008) | 2.92(0.115) | 2.79(0.110) | 2.10(0.083) | 2.00(0.079) | 0.50(0.020) | 2.54(0.100) | 1.02(0.040) | 1.27(0.050) |
| 3225(1210) | 3.50(0.138) | 2.90(0.114) | 2.25(0.088) | 2.10(0.083) | 0.50(0.020) | 2.54(0.100) | 1.02(0.040) | 1.78(0.070) |
| 4532(1812) | 4.80(0.189) | 3.40(0.134) | 3.15(0.124) | 2.53(0.100) | 0.65(0.026) | 3.05(0.120) | 1.14(0.045) | 3.00(0.118) |

## 3 产品品名构成 Product Spec. Model

FHW 0805 UC R10 J G T  
① ② ③ ④ ⑤ ⑥ ⑦

- ① 绕线型片式电感器系列 Wire Wound Inductor Series;
- ② 外形尺寸 Dimensions: 0402、0603、0805、1008、1210、1812;
- ③ 芯片类型 Material: UC、HC---陶瓷芯 Ceramic core; UF、IF、QF、HF---铁氧体芯 Ferrite core;
- ④ 标称电感量 Inductance: 1N0=1.0nH、010=10nH、R10=100nH、1R0=1.0μH、100=10μH、101=100μH、102=1mH;
- ⑤ 标称电感值偏差 Tolerance: F---±1%; G---±2%; J---±5%; K---±10%; M---±20%;
- ⑥ 电极表面镀层材料 Terminal: G---金端头 Gold; S---锡端头 Tin;
- ⑦ 包装类型 Packaging type: T---卷带盘装 Tape&Reel; B---散装 Bulk。



#### 4 电性能参数表 Electrical Characteristics List

| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>(nH) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW0402UC1N0KGT  |                         | $\pm 10$                     | 1.0                            | 250                                         | 13           | 250                                       | 0.045                               | 500                                 | 10000                        | 1360                   |
| FHW0402UC1N2KGT  |                         | $\pm 10$                     | 1.2                            | 250                                         | 8            | 250                                       | 0.135                               | 500                                 | 10000                        | 640                    |
| FHW0402UC1N8KGT  |                         | $\pm 10$                     | 1.8                            | 250                                         | 16           | 250                                       | 0.070                               | 500                                 | 6000                         | 1040                   |
| FHW0402UC1N9KGT  |                         | $\pm 10$                     | 1.9                            | 250                                         | 16           | 250                                       | 0.070                               | 500                                 | 6000                         | 1040                   |
| FHW0402UC2N0KGT  |                         | $\pm 10$                     | 2.0                            | 250                                         | 18           | 250                                       | 0.070                               | 500                                 | 6000                         | 1040                   |
| FHW0402UC2N2KGT  |                         | $\pm 10$                     | 2.2                            | 250                                         | 18           | 250                                       | 0.070                               | 500                                 | 6000                         | 960                    |
| FHW0402UC2N4KGT  |                         | $\pm 10$                     | 2.4                            | 250                                         | 16           | 250                                       | 0.080                               | 500                                 | 6000                         | 790                    |
| FHW0402UC2N5KGT  |                         | $\pm 10$                     | 2.5                            | 250                                         | 15           | 250                                       | 0.120                               | 500                                 | 6000                         | 640                    |
| FHW0402UC2N7KGT  |                         | $\pm 10$                     | 2.7                            | 250                                         | 15           | 250                                       | 0.120                               | 500                                 | 6000                         | 640                    |
| FHW0402UC2N9KGT  |                         | $\pm 10$                     | 2.9                            | 250                                         | 8            | 250                                       | 0.300                               | 500                                 | 6000                         | 400                    |
| FHW0402UC3N3JGT  |                         | $\pm 5$                      | 3.3                            | 250                                         | 20           | 250                                       | 0.066                               | 500                                 | 6000                         | 840                    |
| FHW0402UC3N6JGT  |                         | $\pm 5$                      | 3.6                            | 250                                         | 20           | 250                                       | 0.066                               | 500                                 | 6000                         | 840                    |
| FHW0402UC3N9JGT  |                         | $\pm 5$                      | 3.9                            | 250                                         | 20           | 250                                       | 0.066                               | 500                                 | 6000                         | 840                    |
| FHW0402UC4N3JGT  |                         | $\pm 5$                      | 4.3                            | 250                                         | 20           | 250                                       | 0.091                               | 500                                 | 6000                         | 700                    |
| FHW0402UC4N7JGT  |                         | $\pm 5$                      | 4.7                            | 250                                         | 18           | 250                                       | 0.200                               | 500                                 | 4500                         | 640                    |
| FHW0402UC5N1JGT  |                         | $\pm 5$                      | 5.1                            | 250                                         | 18           | 250                                       | 0.083                               | 500                                 | 4800                         | 800                    |
| FHW0402UC5N6JGT  |                         | $\pm 5$                      | 5.6                            | 250                                         | 20           | 250                                       | 0.083                               | 500                                 | 4800                         | 760                    |
| FHW0402UC6N2JGT  |                         | $\pm 5$                      | 6.2                            | 250                                         | 23           | 250                                       | 0.083                               | 500                                 | 4800                         | 760                    |
| FHW0402UC6N8JGT  |                         | $\pm 5$                      | 6.8                            | 250                                         | 23           | 250                                       | 0.260                               | 500                                 | 4800                         | 680                    |
| FHW0402UC7N5JGT  |                         | $\pm 5$                      | 7.5                            | 250                                         | 23           | 250                                       | 0.100                               | 500                                 | 4800                         | 680                    |
| FHW0402UC8N2JGT  |                         | $\pm 5$                      | 8.2                            | 250                                         | 25           | 250                                       | 0.100                               | 500                                 | 4400                         | 680                    |
| FHW0402UC8N7JGT  |                         | $\pm 5$                      | 8.7                            | 250                                         | 25           | 250                                       | 0.200                               | 500                                 | 4100                         | 480                    |
| FHW0402UC9N0JGT  |                         | $\pm 5$                      | 9.0                            | 250                                         | 25           | 250                                       | 0.100                               | 500                                 | 4160                         | 680                    |
| FHW0402UC9N5JGT  |                         | $\pm 5$                      | 9.5                            | 250                                         | 25           | 250                                       | 0.200                               | 500                                 | 4000                         | 480                    |
| FHW0402UC010JGT  |                         | $\pm 5$                      | 10                             | 250                                         | 25           | 250                                       | 0.20                                | 500                                 | 3900                         | 480                    |
| FHW0402UC011JGT  |                         | $\pm 5$                      | 11                             | 250                                         | 25           | 250                                       | 0.120                               | 500                                 | 3680                         | 640                    |



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>(nH) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW0402UC012JGT  |                         | $\pm 5$                      | 12                             | 250                                         | 25           | 250                                       | 0.120                               | 500                                 | 3600                         | 640                    |
| FHW0402UC013JGT  |                         | $\pm 5$                      | 13                             | 250                                         | 25           | 250                                       | 0.210                               | 500                                 | 3450                         | 440                    |
| FHW0402UC015JGT  |                         | $\pm 5$                      | 15                             | 250                                         | 25           | 250                                       | 0.300                               | 500                                 | 3280                         | 560                    |
| FHW0402UC016JGT  |                         | $\pm 5$                      | 16                             | 250                                         | 25           | 250                                       | 0.220                               | 500                                 | 3100                         | 560                    |
| FHW0402UC018JGT  |                         | $\pm 5$                      | 18                             | 250                                         | 25           | 250                                       | 0.230                               | 500                                 | 3100                         | 420                    |
| FHW0402UC019JGT  |                         | $\pm 5$                      | 19                             | 250                                         | 25           | 250                                       | 0.200                               | 500                                 | 3040                         | 480                    |
| FHW0402UC020JGT  |                         | $\pm 5$                      | 20                             | 250                                         | 25           | 250                                       | 0.250                               | 500                                 | 3000                         | 420                    |
| FHW0402UC022JGT  |                         | $\pm 5$                      | 22                             | 250                                         | 25           | 250                                       | 0.300                               | 500                                 | 2800                         | 400                    |
| FHW0402UC023JGT  |                         | $\pm 5$                      | 23                             | 250                                         | 22           | 250                                       | 0.380                               | 500                                 | 2720                         | 310                    |
| FHW0402UC024JGT  |                         | $\pm 5$                      | 24                             | 250                                         | 25           | 250                                       | 0.300                               | 500                                 | 2700                         | 400                    |
| FHW0402UC027JGT  |                         | $\pm 5$                      | 27                             | 250                                         | 24           | 250                                       | 0.520                               | 500                                 | 2480                         | 280                    |
| FHW0402UC030JGT  |                         | $\pm 5$                      | 30                             | 250                                         | 25           | 250                                       | 0.500                               | 500                                 | 2350                         | 400                    |
| FHW0402UC033JGT  |                         | $\pm 5$                      | 33                             | 250                                         | 24           | 250                                       | 0.650                               | 500                                 | 2350                         | 350                    |
| FHW0402UC036JGT  |                         | $\pm 5$                      | 36                             | 250                                         | 25           | 250                                       | 0.600                               | 500                                 | 2320                         | 250                    |
| FHW0402UC039JGT  |                         | $\pm 5$                      | 39                             | 250                                         | 25           | 250                                       | 0.750                               | 500                                 | 2100                         | 200                    |
| FHW0402UC040JGT  |                         | $\pm 5$                      | 40                             | 250                                         | 25           | 250                                       | 0.600                               | 500                                 | 2240                         | 220                    |
| FHW0402UC043JGT  |                         | $\pm 5$                      | 43                             | 250                                         | 25           | 250                                       | 0.810                               | 500                                 | 2030                         | 100                    |
| FHW0402UC047JGT  |                         | $\pm 5$                      | 47                             | 250                                         | 25           | 250                                       | 0.830                               | 500                                 | 2100                         | 150                    |
| FHW0402UC051JGT  |                         | $\pm 5$                      | 51                             | 250                                         | 25           | 250                                       | 0.820                               | 500                                 | 1750                         | 100                    |
| FHW0402UC056JGT  |                         | $\pm 5$                      | 56                             | 250                                         | 25           | 250                                       | 0.97                                | 500                                 | 1760                         | 100                    |
| FHW0402UC062JGT  |                         | $\pm 5$                      | 62                             | 250                                         | 25           | 250                                       | 1.120                               | 500                                 | 1620                         | 100                    |
| FHW0402UC068JGT  |                         | $\pm 5$                      | 68                             | 250                                         | 25           | 250                                       | 1.12                                | 500                                 | 1620                         | 100                    |
| FHW0402UC075JGT  |                         | $\pm 5$                      | 75                             | 250                                         | 25           | 250                                       | 1.630                               | 500                                 | 1400                         | 50                     |
| FHW0402UC082JGT  |                         | $\pm 5$                      | 82                             | 250                                         | 25           | 250                                       | 1.70                                | 500                                 | 1260                         | 50                     |
| FHW0402UCR10JGT  |                         | $\pm 5$                      | 100                            | 250                                         | 25           | 250                                       | 2.00                                | 500                                 | 1160                         | 30                     |
| FHW0402UCR12JGT  |                         | $\pm 5$                      | 120                            | 250                                         | 25           | 250                                       | 2.20                                | 500                                 | 1100                         | 30                     |

注：FHW0402 系列产品不印标。



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inducta<br>nce<br>(nH) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|------------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW0603UC1N6KGT  |                         | $\pm 10$                     | 1.6                                | 250                                         | 18           | 250                                       | 0.04                                | 500                                 | 12500                        | 700                    |
| FHW0603UC1N8KGT  |                         | $\pm 10$                     | 1.8                                | 250                                         | 16           | 250                                       | 0.045                               | 500                                 | 12500                        | 700                    |
| FHW0603UC2N2KGT  |                         | $\pm 10$                     | 2.2                                | 250                                         | 12           | 250                                       | 0.09                                | 500                                 | 10000                        | 700                    |
| FHW0603UC3N3KGT  |                         | $\pm 10$                     | 3.3                                | 250                                         | 20           | 250                                       | 0.075                               | 500                                 | 5900                         | 700                    |
| FHW0603UC3N9JGT  |                         | $\pm 5$                      | 3.9                                | 250                                         | 22           | 250                                       | 0.08                                | 500                                 | 6900                         | 700                    |
| FHW0603UC4N7JGT  |                         | $\pm 5$                      | 4.7                                | 250                                         | 20           | 250                                       | 0.116                               | 500                                 | 5800                         | 700                    |
| FHW0603UC5N6KGT  |                         | $\pm 10$                     | 5.6                                | 250                                         | 18           | 250                                       | 0.20                                | 500                                 | 5700                         | 700                    |
| FHW0603UC6N8JGT  |                         | $\pm 5$                      | 6.8                                | 250                                         | 27           | 250                                       | 0.11                                | 500                                 | 5800                         | 700                    |
| FHW0603UC7N5JGT  |                         | $\pm 5$                      | 7.5                                | 250                                         | 28           | 250                                       | 0.11                                | 500                                 | 4800                         | 700                    |
| FHW0603UC8N2JGT  |                         | $\pm 5$                      | 8.2                                | 250                                         | 28           | 250                                       | 0.12                                | 500                                 | 4700                         | 700                    |
| FHW0603UC010JGT  |                         | $\pm 5$                      | 10                                 | 250                                         | 31           | 250                                       | 0.13                                | 500                                 | 4800                         | 700                    |
| FHW0603UC012JGT  |                         | $\pm 5$                      | 12                                 | 250                                         | 35           | 250                                       | 0.13                                | 500                                 | 4000                         | 700                    |
| FHW0603UC015JGT  |                         | $\pm 5$                      | 15                                 | 250                                         | 30           | 250                                       | 0.15                                | 500                                 | 4000                         | 700                    |
| FHW0603UC018JGT  |                         | $\pm 5$                      | 18                                 | 250                                         | 35           | 250                                       | 0.17                                | 500                                 | 3100                         | 700                    |
| FHW0603UC022JGT  |                         | $\pm 5$                      | 22                                 | 250                                         | 38           | 250                                       | 0.19                                | 500                                 | 3000                         | 700                    |
| FHW0603UC027JGT  |                         | $\pm 5$                      | 27                                 | 250                                         | 36           | 250                                       | 0.22                                | 500                                 | 2800                         | 600                    |
| FHW0603UC033JGT  |                         | $\pm 5$                      | 33                                 | 250                                         | 36           | 250                                       | 0.22                                | 500                                 | 2300                         | 600                    |
| FHW0603UC039JGT  |                         | $\pm 5$                      | 39                                 | 250                                         | 40           | 250                                       | 0.25                                | 500                                 | 2200                         | 600                    |
| FHW0603UC047JGT  |                         | $\pm 5$                      | 47                                 | 200                                         | 36           | 200                                       | 0.28                                | 500                                 | 2000                         | 600                    |
| FHW0603UC056JGT  |                         | $\pm 5$                      | 56                                 | 200                                         | 38           | 200                                       | 0.28                                | 500                                 | 1900                         | 600                    |
| FHW0603UC068JGT  |                         | $\pm 5$                      | 68                                 | 200                                         | 36           | 200                                       | 0.34                                | 500                                 | 1700                         | 600                    |
| FHW0603UC082JGT  |                         | $\pm 5$                      | 82                                 | 150                                         | 34           | 150                                       | 0.55                                | 500                                 | 1700                         | 400                    |
| FHW0603UCR10JGT  |                         | $\pm 5$                      | 100                                | 150                                         | 30           | 150                                       | 0.63                                | 500                                 | 1400                         | 400                    |
| FHW0603UCR12JGT  |                         | $\pm 5$                      | 120                                | 150                                         | 32           | 150                                       | 0.73                                | 500                                 | 1300                         | 300                    |
| FHW0603UCR15JGT  |                         | $\pm 5$                      | 150                                | 150                                         | 28           | 150                                       | 0.80                                | 500                                 | 990                          | 280                    |
| FHW0603UCR18JGT  |                         | $\pm 5$                      | 180                                | 100                                         | 25           | 100                                       | 1.45                                | 500                                 | 990                          | 240                    |

注：FHW0603 系列产品不印标。



注：FHW0603 系列产品不印标。



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>(nH) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW0805UC2N2KGT  |                         | $\pm 10$                     | 2.2                            | 250                                         | 50           | 1500                                      | 0.03                                | 500                                 | 8500                         | 800                    |
| FHW0805UC2N7JGT  |                         | $\pm 5$                      | 2.7                            | 250                                         | 50           | 1500                                      | 0.045                               | 500                                 | 8000                         | 800                    |
| FHW0805UC3N3KGT  |                         | $\pm 10$                     | 3.3                            | 250                                         | 35           | 1500                                      | 0.09                                | 500                                 | 7900                         | 600                    |
| FHW0805UC4N7KGT  |                         | $\pm 10$                     | 4.7                            | 250                                         | 40           | 1000                                      | 0.05                                | 500                                 | 6000                         | 600                    |
| FHW0805UC5N6JGT  |                         | $\pm 5$                      | 5.6                            | 250                                         | 50           | 1000                                      | 0.065                               | 500                                 | 5500                         | 600                    |
| FHW0805UC6N8JGT  |                         | $\pm 5$                      | 6.8                            | 250                                         | 50           | 1000                                      | 0.11                                | 500                                 | 5500                         | 600                    |
| FHW0805UC8N2JGT  |                         | $\pm 5$                      | 8.2                            | 250                                         | 35           | 1000                                      | 0.20                                | 500                                 | 4700                         | 600                    |
| FHW0805UC010JGT  |                         | $\pm 5$                      | 10                             | 250                                         | 50           | 500                                       | 0.15                                | 500                                 | 4200                         | 600                    |
| FHW0805UC012JGT  |                         | $\pm 5$                      | 12                             | 250                                         | 50           | 500                                       | 0.15                                | 500                                 | 4000                         | 600                    |
| FHW0805UC015JGT  |                         | $\pm 5$                      | 15                             | 250                                         | 45           | 500                                       | 0.17                                | 500                                 | 3400                         | 600                    |
| FHW0805UC018JGT  |                         | $\pm 5$                      | 18                             | 250                                         | 55           | 500                                       | 0.20                                | 500                                 | 3300                         | 600                    |
| FHW0805UC022JGT  |                         | $\pm 5$                      | 22                             | 250                                         | 55           | 500                                       | 0.22                                | 500                                 | 2600                         | 500                    |
| FHW0805UC027JGT  |                         | $\pm 5$                      | 27                             | 250                                         | 55           | 500                                       | 0.25                                | 500                                 | 2500                         | 500                    |
| FHW0805UC033JGT  |                         | $\pm 5$                      | 33                             | 250                                         | 55           | 500                                       | 0.27                                | 500                                 | 2050                         | 500                    |
| FHW0805UC039JGT  |                         | $\pm 5$                      | 39                             | 250                                         | 55           | 500                                       | 0.29                                | 500                                 | 2000                         | 500                    |
| FHW0805UC047JGT  |                         | $\pm 5$                      | 47                             | 200                                         | 55           | 500                                       | 0.31                                | 500                                 | 1650                         | 500                    |
| FHW0805UC056JGT  |                         | $\pm 5$                      | 56                             | 200                                         | 55           | 500                                       | 0.34                                | 500                                 | 1550                         | 500                    |
| FHW0805UC068JGT  |                         | $\pm 5$                      | 68                             | 200                                         | 55           | 500                                       | 0.38                                | 500                                 | 1450                         | 500                    |
| FHW0805UC082JGT  |                         | $\pm 5$                      | 82                             | 150                                         | 55           | 500                                       | 0.42                                | 500                                 | 1300                         | 400                    |
| FHW0805UCR10JGT  |                         | $\pm 5$                      | 100                            | 150                                         | 50           | 500                                       | 0.46                                | 500                                 | 1200                         | 400                    |
| FHW0805UCR12JGT  |                         | $\pm 5$                      | 120                            | 150                                         | 45           | 250                                       | 0.51                                | 500                                 | 1100                         | 400                    |
| FHW0805UCR15JGT  |                         | $\pm 5$                      | 150                            | 100                                         | 45           | 250                                       | 0.56                                | 500                                 | 920                          | 400                    |
| FHW0805UCR18JGT  |                         | $\pm 5$                      | 180                            | 100                                         | 45           | 250                                       | 0.64                                | 500                                 | 870                          | 400                    |
| FHW0805UCR22JGT  |                         | $\pm 5$                      | 220                            | 100                                         | 40           | 250                                       | 1.05                                | 500                                 | 850                          | 400                    |
| FHW0805UCR27JGT  |                         | $\pm 5$                      | 270                            | 100                                         | 40           | 250                                       | 1.10                                | 500                                 | 650                          | 350                    |
| FHW0805UCR33JGT  |                         | $\pm 5$                      | 330                            | 100                                         | 40           | 250                                       | 1.40                                | 500                                 | 600                          | 310                    |
| FHW0805UCR39JGT  |                         | $\pm 5$                      | 390                            | 100                                         | 40           | 250                                       | 1.50                                | 500                                 | 560                          | 290                    |

Page 9 of 29



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>(nH) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW1008UC3N9JGT  |                         | $\pm 5$                      | 3.9                            | 50                                          | 50           | 1500                                      | 0.035                               | 500                                 | 6000                         | 1000                   |
| FHW1008UC4N7JGT  |                         | $\pm 5$                      | 4.7                            | 50                                          | 50           | 1500                                      | 0.045                               | 500                                 | 6000                         | 1000                   |
| FHW1008UC5N6JGT  |                         | $\pm 5$                      | 5.6                            | 50                                          | 30           | 1000                                      | 0.18                                | 500                                 | 6000                         | 1000                   |
| FHW1008UC010JGT  |                         | $\pm 5$                      | 10                             | 50                                          | 50           | 500                                       | 0.08                                | 500                                 | 4100                         | 1000                   |
| FHW1008UC012JGT  |                         | $\pm 5$                      | 12                             | 50                                          | 50           | 500                                       | 0.09                                | 500                                 | 3300                         | 1000                   |
| FHW1008UC015JGT  |                         | $\pm 5$                      | 15                             | 50                                          | 45           | 500                                       | 0.15                                | 500                                 | 2500                         | 1000                   |
| FHW1008UC018JGT  |                         | $\pm 5$                      | 18                             | 50                                          | 50           | 350                                       | 0.11                                | 500                                 | 2500                         | 1000                   |
| FHW1008UC022JGT  |                         | $\pm 5$                      | 22                             | 50                                          | 55           | 350                                       | 0.12                                | 500                                 | 2400                         | 1000                   |
| FHW1008UC027JGT  |                         | $\pm 5$                      | 27                             | 50                                          | 55           | 350                                       | 0.13                                | 500                                 | 1600                         | 1000                   |
| FHW1008UC033JGT  |                         | $\pm 5$                      | 33                             | 50                                          | 60           | 350                                       | 0.14                                | 500                                 | 1600                         | 1000                   |
| FHW1008UC039JGT  |                         | $\pm 5$                      | 39                             | 50                                          | 60           | 350                                       | 0.15                                | 500                                 | 1500                         | 1000                   |
| FHW1008UC047JGT  |                         | $\pm 5$                      | 47                             | 50                                          | 65           | 350                                       | 0.16                                | 500                                 | 1500                         | 1000                   |
| FHW1008UC056JGT  |                         | $\pm 5$                      | 56                             | 50                                          | 65           | 350                                       | 0.18                                | 500                                 | 1100                         | 1000                   |
| FHW1008UC068JGT  |                         | $\pm 5$                      | 68                             | 50                                          | 65           | 350                                       | 0.20                                | 500                                 | 1000                         | 1000                   |
| FHW1008UC082JGT  |                         | $\pm 5$                      | 82                             | 50                                          | 60           | 350                                       | 0.22                                | 500                                 | 1000                         | 1000                   |
| FHW1008UCR10JGT  |                         | $\pm 5$                      | 100                            | 25                                          | 60           | 350                                       | 0.56                                | 500                                 | 1000                         | 650                    |
| FHW1008UCR12JGT  |                         | $\pm 5$                      | 120                            | 25                                          | 60           | 350                                       | 0.63                                | 500                                 | 950                          | 650                    |
| FHW1008UCR15JGT  |                         | $\pm 5$                      | 150                            | 25                                          | 45           | 100                                       | 0.70                                | 500                                 | 800                          | 580                    |
| FHW1008UCR18JGT  |                         | $\pm 5$                      | 180                            | 25                                          | 45           | 100                                       | 0.77                                | 500                                 | 640                          | 620                    |
| FHW1008UCR22JGT  |                         | $\pm 5$                      | 220                            | 25                                          | 45           | 100                                       | 0.84                                | 500                                 | 620                          | 500                    |
| FHW1008UCR27JGT  |                         | $\pm 5$                      | 270                            | 25                                          | 45           | 100                                       | 0.91                                | 500                                 | 600                          | 500                    |
| FHW1008UCR33JGT  |                         | $\pm 5$                      | 330                            | 25                                          | 45           | 100                                       | 1.05                                | 500                                 | 500                          | 450                    |
| FHW1008UCR39JGT  |                         | $\pm 5$                      | 390                            | 25                                          | 45           | 100                                       | 1.12                                | 500                                 | 480                          | 470                    |
| FHW1008UCR47JGT  |                         | $\pm 5$                      | 470                            | 25                                          | 45           | 100                                       | 1.19                                | 500                                 | 450                          | 470                    |
| FHW1008UCR56JGT  |                         | $\pm 5$                      | 560                            | 25                                          | 45           | 100                                       | 1.33                                | 500                                 | 415                          | 400                    |
| FHW1008UCR68JGT  |                         | $\pm 5$                      | 680                            | 25                                          | 45           | 100                                       | 1.47                                | 500                                 | 375                          | 400                    |
| FHW1008UCR82JGT  |                         | $\pm 5$                      | 820                            | 25                                          | 45           | 100                                       | 1.61                                | 500                                 | 250                          | 400                    |

Page 11 of 29



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inducta<br>nce<br>(nH) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|------------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW1210HC3N9KGT  |                         | $\pm 10$                     | 3.9                                | 100                                         | 30           | 300                                       | 0.05                                | 500                                 | 6000                         | 1000                   |
| FHW1210HC4N7JGT  |                         | $\pm 5$                      | 4.7                                | 100                                         | 30           | 300                                       | 0.065                               | 500                                 | 5800                         | 1000                   |
| FHW1210HC8N2KGT  |                         | $\pm 10$                     | 8.2                                | 100                                         | 30           | 300                                       | 0.07                                | 500                                 | 5500                         | 1000                   |
| FHW1210HC010JGT  |                         | $\pm 5$                      | 10                                 | 100                                         | 40           | 300                                       | 0.08                                | 500                                 | 4000                         | 1000                   |
| FHW1210HC012JGT  |                         | $\pm 5$                      | 12                                 | 100                                         | 40           | 300                                       | 0.08                                | 500                                 | 3200                         | 1000                   |
| FHW1210HC015JGT  |                         | $\pm 5$                      | 15                                 | 100                                         | 40           | 300                                       | 0.10                                | 500                                 | 3200                         | 1000                   |
| FHW1210HC018JGT  |                         | $\pm 5$                      | 18                                 | 100                                         | 50           | 300                                       | 0.10                                | 500                                 | 2800                         | 1000                   |
| FHW1210HC022JGT  |                         | $\pm 5$                      | 22                                 | 100                                         | 50           | 300                                       | 0.10                                | 500                                 | 2000                         | 1000                   |
| FHW1210HC027JGT  |                         | $\pm 5$                      | 27                                 | 100                                         | 50           | 300                                       | 0.11                                | 500                                 | 1800                         | 1000                   |
| FHW1210HC033JGT  |                         | $\pm 5$                      | 33                                 | 100                                         | 55           | 300                                       | 0.11                                | 500                                 | 1800                         | 1000                   |
| FHW1210HC039JGT  |                         | $\pm 5$                      | 39                                 | 100                                         | 55           | 300                                       | 0.12                                | 500                                 | 1800                         | 1000                   |
| FHW1210HC047JGT  |                         | $\pm 5$                      | 47                                 | 100                                         | 55           | 300                                       | 0.13                                | 500                                 | 1500                         | 1000                   |
| FHW1210HC056JGT  |                         | $\pm 5$                      | 56                                 | 100                                         | 55           | 300                                       | 0.14                                | 500                                 | 1450                         | 1000                   |
| FHW1210HC068JGT  |                         | $\pm 5$                      | 68                                 | 100                                         | 55           | 300                                       | 0.15                                | 500                                 | 1200                         | 900                    |
| FHW1210HC082JGT  |                         | $\pm 5$                      | 82                                 | 100                                         | 55           | 300                                       | 0.20                                | 500                                 | 1000                         | 900                    |
| FHW1210HCR10JGT  |                         | $\pm 5$                      | 100                                | 100                                         | 55           | 300                                       | 0.21                                | 500                                 | 900                          | 850                    |
| FHW1210HCR12JGT  |                         | $\pm 5$                      | 120                                | 100                                         | 60           | 300                                       | 0.21                                | 500                                 | 800                          | 800                    |
| FHW1210HCR15JGT  |                         | $\pm 5$                      | 150                                | 100                                         | 60           | 300                                       | 0.25                                | 500                                 | 780                          | 750                    |
| FHW1210HCR18JGT  |                         | $\pm 5$                      | 180                                | 50                                          | 60           | 300                                       | 0.30                                | 500                                 | 760                          | 700                    |
| FHW1210HCR22JGT  |                         | $\pm 5$                      | 220                                | 50                                          | 60           | 300                                       | 0.32                                | 500                                 | 650                          | 670                    |
| FHW1210HCR27JGT  |                         | $\pm 5$                      | 270                                | 50                                          | 55           | 300                                       | 0.34                                | 500                                 | 620                          | 630                    |
| FHW1210HCR33JGT  |                         | $\pm 5$                      | 330                                | 50                                          | 45           | 150                                       | 0.38                                | 500                                 | 600                          | 590                    |
| FHW1210HCR39JGT  |                         | $\pm 5$                      | 390                                | 50                                          | 45           | 150                                       | 0.58                                | 500                                 | 510                          | 530                    |
| FHW1210HCR47JGT  |                         | $\pm 5$                      | 470                                | 50                                          | 45           | 150                                       | 0.80                                | 500                                 | 500                          | 490                    |
| FHW1210HCR56JGT  |                         | $\pm 5$                      | 560                                | 35                                          | 45           | 150                                       | 1.10                                | 500                                 | 420                          | 460                    |
| FHW1210HCR68JGT  |                         | $\pm 5$                      | 680                                | 35                                          | 45           | 150                                       | 1.20                                | 500                                 | 400                          | 430                    |
| FHW1210HCR82JGT  |                         | $\pm 5$                      | 820                                | 35                                          | 45           | 150                                       | 1.82                                | 500                                 | 370                          | 400                    |

Page 13 of 29



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>( $\mu$ H) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW0603UFR10JST  |                         | $\pm 5$                      | 0.10                                 | 7.9                                         | 12           | 7.9                                       | 0.13                                | 500                                 | 1150                         | 1000                   |
| FHW0603UFR12JST  |                         | $\pm 5$                      | 0.12                                 | 7.9                                         | 12           | 7.9                                       | 0.16                                | 500                                 | 1100                         | 1000                   |
| FHW0603UFR15JST  |                         | $\pm 5$                      | 0.15                                 | 7.9                                         | 12           | 7.9                                       | 0.15                                | 500                                 | 1050                         | 1000                   |
| FHW0603UFR18JST  |                         | $\pm 5$                      | 0.18                                 | 7.9                                         | 12           | 7.9                                       | 0.15                                | 500                                 | 950                          | 1000                   |
| FHW0603UFR22JST  |                         | $\pm 5$                      | 0.22                                 | 7.9                                         | 12           | 7.9                                       | 0.20                                | 500                                 | 900                          | 900                    |
| FHW0603UFR27JST  |                         | $\pm 5$                      | 0.27                                 | 7.9                                         | 12           | 7.9                                       | 0.30                                | 500                                 | 775                          | 700                    |
| FHW0603UFR33JST  |                         | $\pm 5$                      | 0.33                                 | 7.9                                         | 12           | 7.9                                       | 0.32                                | 500                                 | 725                          | 600                    |
| FHW0603UFR39JST  |                         | $\pm 5$                      | 0.39                                 | 7.9                                         | 12           | 7.9                                       | 0.51                                | 500                                 | 620                          | 500                    |
| FHW0603UFR47JST  |                         | $\pm 5$                      | 0.47                                 | 7.9                                         | 12           | 7.9                                       | 0.62                                | 500                                 | 540                          | 420                    |
| FHW0603UFR56JST  |                         | $\pm 5$                      | 0.56                                 | 7.9                                         | 12           | 7.9                                       | 0.65                                | 500                                 | 600                          | 400                    |
| FHW0603UFR68JST  |                         | $\pm 5$                      | 0.68                                 | 7.9                                         | 12           | 7.9                                       | 1.00                                | 500                                 | 500                          | 380                    |
| FHW0603UFR82JST  |                         | $\pm 5$                      | 0.82                                 | 7.9                                         | 12           | 7.9                                       | 1.30                                | 500                                 | 500                          | 350                    |
| FHW0603UF1R0JST  |                         | $\pm 5$                      | 1.0                                  | 7.9                                         | 12           | 7.9                                       | 1.50                                | 500                                 | 400                          | 330                    |
| FHW0603UF1R2JST  |                         | $\pm 5$                      | 1.2                                  | 7.9                                         | 12           | 7.9                                       | 1.70                                | 500                                 | 380                          | 320                    |
| FHW0603UF1R5JST  |                         | $\pm 5$                      | 1.5                                  | 7.9                                         | 12           | 7.9                                       | 1.90                                | 500                                 | 300                          | 310                    |
| FHW0603UF1R8JST  |                         | $\pm 5$                      | 1.8                                  | 7.9                                         | 12           | 7.9                                       | 2.20                                | 500                                 | 180                          | 300                    |
| FHW0603UF2R2JST  |                         | $\pm 5$                      | 2.2                                  | 7.9                                         | 12           | 7.9                                       | 2.30                                | 500                                 | 180                          | 280                    |
| FHW0603UF2R7JST  |                         | $\pm 5$                      | 2.7                                  | 7.9                                         | 12           | 7.9                                       | 3.10                                | 500                                 | 150                          | 250                    |
| FHW0603UF3R3JST  |                         | $\pm 5$                      | 3.3                                  | 7.9                                         | 12           | 7.9                                       | 2.90                                | 500                                 | 150                          | 230                    |
| FHW0603UF3R9JST  |                         | $\pm 5$                      | 3.9                                  | 7.9                                         | 12           | 7.9                                       | 3.20                                | 500                                 | 120                          | 210                    |
| FHW0603UF4R7JST  |                         | $\pm 5$                      | 4.7                                  | 7.9                                         | 12           | 7.9                                       | 4.00                                | 500                                 | 100                          | 200                    |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |

注：FHW0603 系列产品不印标。



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>( $\mu$ H) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW0805UFR47JST  |                         | $\pm 5$                      | 0.47                                 | 25.2                                        | 10           | 25.2                                      | 0.40                                | 500                                 | 450                          | 500                    |
| FHW0805UFR56JST  |                         | $\pm 5$                      | 0.56                                 | 25.2                                        | 10           | 25.2                                      | 0.40                                | 500                                 | 450                          | 500                    |
| FHW0805UFR68JST  |                         | $\pm 5$                      | 0.68                                 | 25.2                                        | 10           | 25.2                                      | 0.60                                | 500                                 | 400                          | 500                    |
| FHW0805UFR82JST  |                         | $\pm 5$                      | 0.82                                 | 25.2                                        | 10           | 25.2                                      | 0.80                                | 500                                 | 400                          | 500                    |
| FHW0805UF1R0JST  |                         | $\pm 5$                      | 1.0                                  | 7.96                                        | 10           | 7.96                                      | 1.00                                | 500                                 | 360                          | 430                    |
| FHW0805UF1R2JST  |                         | $\pm 5$                      | 1.2                                  | 7.96                                        | 10           | 7.96                                      | 1.15                                | 500                                 | 350                          | 410                    |
| FHW0805UF1R5JST  |                         | $\pm 5$                      | 1.5                                  | 7.96                                        | 10           | 7.96                                      | 1.20                                | 500                                 | 300                          | 400                    |
| FHW0805UF1R8JST  |                         | $\pm 5$                      | 1.8                                  | 7.96                                        | 10           | 7.96                                      | 1.35                                | 500                                 | 200                          | 380                    |
| FHW0805UF2R2JST  |                         | $\pm 5$                      | 2.2                                  | 7.96                                        | 10           | 7.96                                      | 1.50                                | 500                                 | 170                          | 350                    |
| FHW0805UF2R7JST  |                         | $\pm 5$                      | 2.7                                  | 7.96                                        | 10           | 7.96                                      | 1.70                                | 500                                 | 100                          | 320                    |
| FHW0805UF3R3JST  |                         | $\pm 5$                      | 3.3                                  | 7.96                                        | 10           | 7.96                                      | 1.80                                | 500                                 | 90                           | 300                    |
| FHW0805UF3R9JST  |                         | $\pm 5$                      | 3.9                                  | 7.96                                        | 10           | 7.96                                      | 1.95                                | 500                                 | 90                           | 280                    |
| FHW0805UF4R7JST  |                         | $\pm 5$                      | 4.7                                  | 7.96                                        | 10           | 7.96                                      | 2.05                                | 500                                 | 85                           | 250                    |
| FHW0805UF5R6JST  |                         | $\pm 5$                      | 5.6                                  | 7.96                                        | 10           | 7.96                                      | 2.30                                | 500                                 | 70                           | 240                    |
| FHW0805UF6R8JST  |                         | $\pm 5$                      | 6.8                                  | 7.96                                        | 10           | 7.96                                      | 2.60                                | 500                                 | 55                           | 220                    |
| FHW0805UF8R2JST  |                         | $\pm 5$                      | 8.2                                  | 7.96                                        | 10           | 7.96                                      | 3.00                                | 500                                 | 50                           | 180                    |
| FHW0805UF100JST  |                         | $\pm 5$                      | 10                                   | 2.52                                        | 8            | 2.52                                      | 3.20                                | 500                                 | 30                           | 150                    |
| FHW0805UF120JST  |                         | $\pm 5$                      | 12                                   | 2.52                                        | 8            | 2.52                                      | 3.50                                | 500                                 | 17                           | 110                    |
| FHW0805UF150JST  |                         | $\pm 5$                      | 15                                   | 2.52                                        | 8            | 2.52                                      | 4.20                                | 500                                 | 16                           | 100                    |
| FHW0805UF180JST  |                         | $\pm 5$                      | 18                                   | 2.52                                        | 8            | 2.52                                      | 4.50                                | 500                                 | 15                           | 95                     |
| FHW0805UF220JST  |                         | $\pm 5$                      | 22                                   | 2.52                                        | 8            | 2.52                                      | 6.00                                | 500                                 | 14                           | 80                     |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |
|                  |                         |                              |                                      |                                             |              |                                           |                                     |                                     |                              |                        |



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>( $\mu$ H) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW1008IFR12JST  |                         | $\pm 5$                      | 0.12                                 | 25.2                                        | 12           | 25.2                                      | 0.15                                | 500                                 | 850                          | 800                    |
| FHW1008IFR39JST  |                         | $\pm 5$                      | 0.39                                 | 25.2                                        | 12           | 25.2                                      | 0.29                                | 500                                 | 480                          | 600                    |
| FHW1008IFR56JST  |                         | $\pm 5$                      | 0.56                                 | 25.2                                        | 12           | 25.2                                      | 0.42                                | 500                                 | 330                          | 600                    |
| FHW1008IFR68JST  |                         | $\pm 5$                      | 0.68                                 | 25.2                                        | 12           | 25.2                                      | 0.45                                | 500                                 | 330                          | 600                    |
| FHW1008IFR82JST  |                         | $\pm 5$                      | 0.82                                 | 25.2                                        | 12           | 25.2                                      | 0.62                                | 500                                 | 300                          | 600                    |
| FHW1008IF1R0JST  |                         | $\pm 5$                      | 1.0                                  | 25.2                                        | 12           | 25.2                                      | 0.55                                | 500                                 | 300                          | 580                    |
| FHW1008IF1R2JST  |                         | $\pm 5$                      | 1.2                                  | 7.96                                        | 12           | 7.96                                      | 0.75                                | 500                                 | 250                          | 550                    |
| FHW1008IF1R5JST  |                         | $\pm 5$                      | 1.5                                  | 7.96                                        | 12           | 7.96                                      | 0.85                                | 500                                 | 230                          | 400                    |
| FHW1008IF1R8JST  |                         | $\pm 5$                      | 1.8                                  | 7.96                                        | 12           | 7.96                                      | 0.95                                | 500                                 | 168                          | 320                    |
| FHW1008IF2R2JST  |                         | $\pm 5$                      | 2.2                                  | 7.96                                        | 12           | 7.96                                      | 1.30                                | 500                                 | 150                          | 315                    |
| FHW1008IF2R7JST  |                         | $\pm 5$                      | 2.7                                  | 7.96                                        | 12           | 7.96                                      | 1.40                                | 500                                 | 100                          | 300                    |
| FHW1008IF3R3JST  |                         | $\pm 5$                      | 3.3                                  | 7.96                                        | 12           | 7.96                                      | 1.50                                | 500                                 | 80                           | 280                    |
| FHW1008IF3R9JST  |                         | $\pm 5$                      | 3.9                                  | 7.96                                        | 12           | 7.96                                      | 1.55                                | 500                                 | 60                           | 250                    |
| FHW1008IF4R7JST  |                         | $\pm 5$                      | 4.7                                  | 7.96                                        | 12           | 7.96                                      | 1.75                                | 500                                 | 50                           | 210                    |
| FHW1008IF5R6JST  |                         | $\pm 5$                      | 5.6                                  | 7.96                                        | 12           | 7.96                                      | 1.90                                | 500                                 | 40                           | 190                    |
| FHW1008IF6R8JST  |                         | $\pm 5$                      | 6.8                                  | 7.96                                        | 12           | 7.96                                      | 2.00                                | 500                                 | 35                           | 175                    |
| FHW1008IF8R2JST  |                         | $\pm 5$                      | 8.2                                  | 7.96                                        | 12           | 7.96                                      | 2.20                                | 500                                 | 25                           | 160                    |
| FHW1008IF100JST  |                         | $\pm 5$                      | 10                                   | 2.52                                        | 10           | 2.52                                      | 2.50                                | 500                                 | 25                           | 155                    |
| FHW1008IF120JST  |                         | $\pm 5$                      | 12                                   | 2.52                                        | 10           | 2.52                                      | 2.60                                | 500                                 | 20                           | 145                    |
| FHW1008IF150JST  |                         | $\pm 5$                      | 15                                   | 2.52                                        | 10           | 2.52                                      | 3.00                                | 500                                 | 20                           | 130                    |
| FHW1008IF180JST  |                         | $\pm 5$                      | 18                                   | 2.52                                        | 10           | 2.52                                      | 3.00                                | 500                                 | 20                           | 130                    |
| FHW1008IF220JST  |                         | $\pm 5$                      | 22                                   | 2.52                                        | 10           | 2.52                                      | 3.90                                | 500                                 | 18                           | 105                    |
| FHW1008IF270JST  |                         | $\pm 5$                      | 27                                   | 2.52                                        | 10           | 2.52                                      | 4.00                                | 500                                 | 10                           | 100                    |
| FHW1008IF330JST  |                         | $\pm 5$                      | 33                                   | 2.52                                        | 10           | 2.52                                      | 4.80                                | 500                                 | 8                            | 85                     |
| FHW1008IF390JST  |                         | $\pm 5$                      | 39                                   | 2.52                                        | 10           | 2.52                                      | 5.00                                | 500                                 | 7                            | 80                     |
| FHW1008IF470JST  |                         | $\pm 5$                      | 47                                   | 2.52                                        | 10           | 2.52                                      | 5.70                                | 500                                 | 7                            | 60                     |
| FHW1008IF560JST  |                         | $\pm 5$                      | 56                                   | 2.52                                        | 10           | 2.52                                      | 6.00                                | 500                                 | 6.5                          | 55                     |

Page 17 of 29



| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inductance<br>( $\mu$ H) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|--------------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW1210IF1R0JST  |                         | $\pm 5$                      | 1.0                                  | 7.96                                        | 12           | 7.96                                      | 0.30                                | 500                                 | 220                          | 450                    |
| FHW1210IF1R2JST  |                         | $\pm 5$                      | 1.2                                  | 7.96                                        | 12           | 7.96                                      | 0.30                                | 500                                 | 210                          | 450                    |
| FHW1210IF1R5JST  |                         | $\pm 5$                      | 1.5                                  | 7.96                                        | 12           | 7.96                                      | 0.40                                | 500                                 | 200                          | 450                    |
| FHW1210IF1R8JST  |                         | $\pm 5$                      | 1.8                                  | 7.96                                        | 12           | 7.96                                      | 0.50                                | 500                                 | 195                          | 450                    |
| FHW1210IF2R2JST  |                         | $\pm 5$                      | 2.2                                  | 7.96                                        | 12           | 7.96                                      | 0.60                                | 500                                 | 175                          | 450                    |
| FHW1210IF2R7JST  |                         | $\pm 5$                      | 2.7                                  | 7.96                                        | 12           | 7.96                                      | 0.70                                | 500                                 | 120                          | 420                    |
| FHW1210IF3R3JST  |                         | $\pm 5$                      | 3.3                                  | 7.96                                        | 12           | 7.96                                      | 1.10                                | 500                                 | 80                           | 380                    |
| FHW1210IF3R9JST  |                         | $\pm 5$                      | 3.9                                  | 7.96                                        | 12           | 7.96                                      | 1.20                                | 500                                 | 75                           | 360                    |
| FHW1210IF4R7JST  |                         | $\pm 5$                      | 4.7                                  | 7.96                                        | 12           | 7.96                                      | 1.30                                | 500                                 | 60                           | 350                    |
| FHW1210IF5R6JST  |                         | $\pm 5$                      | 5.6                                  | 7.96                                        | 12           | 7.96                                      | 2.00                                | 500                                 | 50                           | 320                    |
| FHW1210IF6R8JST  |                         | $\pm 5$                      | 6.8                                  | 7.96                                        | 12           | 7.96                                      | 1.50                                | 500                                 | 35                           | 310                    |
| FHW1210IF8R2JST  |                         | $\pm 5$                      | 8.2                                  | 7.96                                        | 12           | 7.96                                      | 1.60                                | 500                                 | 35                           | 305                    |
| FHW1210IF100JST  |                         | $\pm 5$                      | 10                                   | 2.52                                        | 10           | 2.52                                      | 1.00                                | 500                                 | 30                           | 300                    |
| FHW1210IF120JST  |                         | $\pm 5$                      | 12                                   | 2.52                                        | 10           | 2.52                                      | 1.20                                | 500                                 | 25                           | 265                    |
| FHW1210IF150JST  |                         | $\pm 5$                      | 15                                   | 2.52                                        | 10           | 2.52                                      | 2.00                                | 500                                 | 22                           | 225                    |
| FHW1210IF180JST  |                         | $\pm 5$                      | 18                                   | 2.52                                        | 10           | 2.52                                      | 2.10                                | 500                                 | 22                           | 210                    |
| FHW1210IF220JST  |                         | $\pm 5$                      | 22                                   | 2.52                                        | 10           | 2.52                                      | 2.40                                | 500                                 | 20                           | 200                    |
| FHW1210IF270JST  |                         | $\pm 5$                      | 27                                   | 2.52                                        | 10           | 2.52                                      | 2.70                                | 500                                 | 18                           | 180                    |
| FHW1210IF330JST  |                         | $\pm 5$                      | 33                                   | 2.52                                        | 10           | 2.52                                      | 2.90                                | 500                                 | 15                           | 160                    |
| FHW1210IF390JST  |                         | $\pm 5$                      | 39                                   | 2.52                                        | 10           | 2.52                                      | 4.70                                | 500                                 | 16                           | 150                    |
| FHW1210IF470JST  |                         | $\pm 5$                      | 47                                   | 2.52                                        | 10           | 2.52                                      | 5.20                                | 500                                 | 10                           | 140                    |
| FHW1210IF560JST  |                         | $\pm 5$                      | 56                                   | 2.52                                        | 10           | 2.52                                      | 5.60                                | 500                                 | 8.0                          | 125                    |
| FHW1210IF680JST  |                         | $\pm 5$                      | 68                                   | 2.52                                        | 10           | 2.52                                      | 4.70                                | 500                                 | 5.0                          | 110                    |
| FHW1210IF820JST  |                         | $\pm 5$                      | 82                                   | 2.52                                        | 10           | 2.52                                      | 5.60                                | 500                                 | 5.0                          | 100                    |
| FHW1210IF101JST  |                         | $\pm 5$                      | 100                                  | 0.796                                       | 8            | 0.796                                     | 6.80                                | 500                                 | 5.0                          | 95                     |
| FHW1210IF121JST  |                         | $\pm 5$                      | 120                                  | 0.796                                       | 8            | 0.796                                     | 7.90                                | 500                                 | 4.0                          | 85                     |
| FHW1210IF151JST  |                         | $\pm 5$                      | 150                                  | 0.796                                       | 8            | 0.796                                     | 9.00                                | 500                                 | 4.0                          | 80                     |

Page 19 of 29



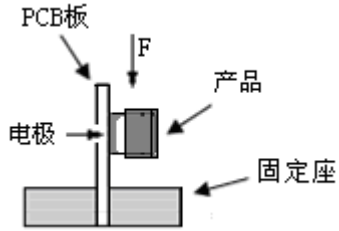
| 型号规格<br>Part NO. | 客户料号<br>Customer<br>P/N | 误差<br>范围<br>Tolerance<br>(%) | 标称<br>感量<br>Inducta<br>nce<br>( $\mu$ H) | 感量测试<br>频率<br>Ls Test<br>frequency<br>(MHz) | Q 值<br>(Min) | Q 值测试<br>频率<br>Test<br>frequency<br>(MHz) | 直流<br>电阻<br>Rdc<br>( $\Omega$ ) max | 测试<br>电压<br>Test<br>voltage<br>(mV) | 自谐振<br>频率<br>SRF<br>(MHz)min | 额定电流<br>Idc<br>(mA)max |
|------------------|-------------------------|------------------------------|------------------------------------------|---------------------------------------------|--------------|-------------------------------------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|
| FHW1812IFR33JST  |                         | $\pm 5$                      | 0.33                                     | 25.2                                        | 10           | 25.2                                      | 0.13                                | 500                                 | 380                          | 1000                   |
| FHW1812IFR56JST  |                         | $\pm 5$                      | 0.56                                     | 25.2                                        | 10           | 25.2                                      | 0.15                                | 500                                 | 300                          | 1000                   |
| FHW1812IF1R0JST  |                         | $\pm 5$                      | 1.0                                      | 7.96                                        | 15           | 7.96                                      | 0.22                                | 500                                 | 200                          | 1000                   |
| FHW1812IF1R2JST  |                         | $\pm 5$                      | 1.2                                      | 7.96                                        | 15           | 7.96                                      | 0.35                                | 500                                 | 200                          | 1000                   |
| FHW1812IF1R5JST  |                         | $\pm 5$                      | 1.5                                      | 7.96                                        | 15           | 7.96                                      | 0.32                                | 500                                 | 180                          | 1000                   |
| FHW1812IF1R8JST  |                         | $\pm 5$                      | 1.8                                      | 7.96                                        | 15           | 7.96                                      | 0.35                                | 500                                 | 160                          | 950                    |
| FHW1812IF2R2JST  |                         | $\pm 5$                      | 2.2                                      | 7.96                                        | 15           | 7.96                                      | 0.37                                | 500                                 | 150                          | 900                    |
| FHW1812IF2R7JST  |                         | $\pm 5$                      | 2.7                                      | 7.96                                        | 15           | 7.96                                      | 0.37                                | 500                                 | 145                          | 850                    |
| FHW1812IF3R3JST  |                         | $\pm 5$                      | 3.3                                      | 7.96                                        | 15           | 7.96                                      | 0.48                                | 500                                 | 140                          | 800                    |
| FHW1812IF3R9JST  |                         | $\pm 5$                      | 3.9                                      | 7.96                                        | 15           | 7.96                                      | 0.60                                | 500                                 | 135                          | 750                    |
| FHW1812IF4R7JST  |                         | $\pm 5$                      | 4.7                                      | 7.96                                        | 15           | 7.96                                      | 1.00                                | 500                                 | 120                          | 700                    |
| FHW1812IF5R6JST  |                         | $\pm 5$                      | 5.6                                      | 7.96                                        | 15           | 7.96                                      | 0.55                                | 500                                 | 110                          | 650                    |
| FHW1812IF6R8JST  |                         | $\pm 5$                      | 6.8                                      | 7.96                                        | 15           | 7.96                                      | 0.80                                | 500                                 | 80                           | 600                    |
| FHW1812IF8R2JST  |                         | $\pm 5$                      | 8.2                                      | 7.96                                        | 10           | 7.96                                      | 0.85                                | 500                                 | 70                           | 600                    |
| FHW1812IF100JST  |                         | $\pm 5$                      | 10                                       | 2.52                                        | 10           | 2.52                                      | 1.00                                | 500                                 | 65                           | 550                    |
| FHW1812IF120JST  |                         | $\pm 5$                      | 12                                       | 2.52                                        | 10           | 2.52                                      | 1.10                                | 500                                 | 55                           | 550                    |
| FHW1812IF150JST  |                         | $\pm 5$                      | 15                                       | 2.52                                        | 10           | 2.52                                      | 1.20                                | 500                                 | 35                           | 500                    |
| FHW1812IF180JST  |                         | $\pm 5$                      | 18                                       | 2.52                                        | 10           | 2.52                                      | 1.20                                | 500                                 | 29                           | 500                    |
| FHW1812IF220JST  |                         | $\pm 5$                      | 22                                       | 2.52                                        | 10           | 2.52                                      | 1.30                                | 500                                 | 20                           | 450                    |
| FHW1812IF270JST  |                         | $\pm 5$                      | 27                                       | 2.52                                        | 10           | 2.52                                      | 1.50                                | 500                                 | 20                           | 400                    |
| FHW1812IF330JST  |                         | $\pm 5$                      | 33                                       | 2.52                                        | 10           | 2.52                                      | 1.70                                | 500                                 | 18                           | 350                    |
| FHW1812IF390JST  |                         | $\pm 5$                      | 39                                       | 2.52                                        | 10           | 2.52                                      | 1.80                                | 500                                 | 14                           | 350                    |
| FHW1812IF470JST  |                         | $\pm 5$                      | 47                                       | 2.52                                        | 10           | 2.52                                      | 2.00                                | 500                                 | 10                           | 300                    |
| FHW1812IF560JST  |                         | $\pm 5$                      | 56                                       | 2.52                                        | 10           | 2.52                                      | 2.20                                | 500                                 | 10                           | 290                    |
| FHW1812IF680JST  |                         | $\pm 5$                      | 68                                       | 2.52                                        | 10           | 2.52                                      | 2.40                                | 500                                 | 5.4                          | 260                    |
| FHW1812IF820JST  |                         | $\pm 5$                      | 82                                       | 2.52                                        | 10           | 2.52                                      | 2.80                                | 500                                 | 5.2                          | 240                    |
| FHW1812IF101JST  |                         | $\pm 5$                      | 100                                      | 0.796                                       | 10           | 0.796                                     | 3.00                                | 500                                 | 4.0                          | 220                    |



注: FHW1812IF 除 1R0、2R2、3R3、3R9、4R7、5R6、100、150、220、270、330、390、560、820、101、271、471、561、681、821、102 外, 其余产品不印标。



## 5 可靠性试验项目 Reliability Testing Items

| 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         | 工作温度范围<br>Operating Temperature Range                    | FHW-UC/HC series: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$<br>FHW-UF/IF/QF/HF series: $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$                                                                       |                                                                                                                                                                                               |
| 2         | 可焊性<br>Solder ability                                    | 外观不发生变化; 超过 90% 的焊锡覆盖在端电极表面<br>There shall be no case deformation or change in appearance. The metalized area must have more than 90% solder coverage.                                                        | 在 $245\pm 5^{\circ}\text{C}$ 熔融的焊锡 (96.5Sn/3.0Ag/0.5Cu) 中浸置 $5\pm 1$ 秒钟。<br>Dip pads in flux and dip in solder pot (96.5Sn/3.0Ag/0.5Cu) at $245\pm 5^{\circ}\text{C}$ for $5\pm 1$ seconds.   |
| 3         | 耐焊接热<br>Soldering Heat Resistance                        | 外观不发生变化; 感量变化不超过 $\pm 5\%$ ; Q 值变化不超过 $\pm 10\%$ 。<br>There shall be no case deformation or change in appearance. Inductance shall not change more than $\pm 5\%$ ; Q shall not change more than $\pm 10\%$ . | 在 $260\pm 5^{\circ}\text{C}$ 熔融的焊锡 (96.5Sn/3.0Ag/0.5Cu) 中浸置 $10\pm 1$ 秒钟。<br>Dip pads in flux and dip in solder pot (96.5Sn/3.0Ag/0.5Cu) at $260\pm 5^{\circ}\text{C}$ for $10\pm 1$ seconds. |
| 4         | 介质耐压<br>Dielectric Withstand Voltage                     | 外观不发生变化; 无击穿现象<br>here shall be no case deformation or change in appearance. No evidence of voltage breakdown.                                                                                                | 在电感器端子和包封层间施加 500V 交流电压, 持续一分钟。<br>Input 500v AC between the electrodes and the resin of inductor and keep on one minute.                                                                     |
| 5         | 绝缘电阻<br>Insulation Resistance                            | 铁氧体芯: $\geq 500\text{M}\Omega$<br>陶瓷芯: $\geq 1000\text{M}\Omega$<br>Ferrite: $\geq 500\text{M}\Omega$<br>Ceramic: $\geq 1000\text{M}\Omega$                                                                   | 在电感器端子和包封层间施加 100V 直流电压, 持续一分钟。<br>Input 100v DC between the electrodes and the resin of inductor and keep on one minute.                                                                     |
| 6         | 端电极附着力<br>(推力测试)<br>Component Adhesion<br>(Push of test) | 绕线型片式电感器:<br>Wire Wound Chip inductor:<br>0402UC series: $\geq 0.45\text{Kg}$<br>0603UF series: $\geq 0.9\text{Kg}$<br>0603UC series、0805UF series: $\geq 1.3\text{Kg}$<br>Other series: $\geq 2\text{Kg}$    |                                                                                                          |



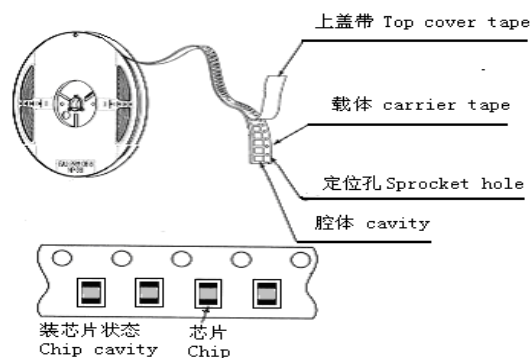
| 序号<br>No. | 项目<br>Items                | 要求<br>Requirements                                                                                                                                                                                                        | 试验方法及备注<br>Test Methods and Remarks                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7         | 过载<br>Over Loading         | 外观不发生变化；电感器不开路。<br>There shall be no case deformation or change in appearance.<br>Inductors shall not have a open winding.                                                                                                | 将规定额定电流 2 倍的直流电流加于电感器，其电流误差为 $\pm 2\%$ ，保持 5 分钟。<br>Direct current of rating current between inductor terminals , Direct current error $\pm 2\%$ , and keep on five minutes.                                                                                                                                                                                                                                                      |
| 8         | 振 动<br>Vibration           | 无开路或短路；<br>感量变化不超过 $\pm 5\%$ ；<br>Q 值变化不超过 $\pm 10\%$ 。<br>Inductors shall not have a shorted or open winding.<br>Inductance shall not change more than $\pm 5\%$ .<br>Q shall not change more than $\pm 10\%$ .          | 振幅 1.5mm，频率 10~55Hz，每个方向保持 2 小时。<br>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 2 hours in each of three(X、Y、Z) axes.                                                                                                                                                                                                                       |
| 9         | 温度变化<br>Temperature Change | 外观不发生变化；<br>感量变化不超过 $\pm 5\%$ ；<br>Q 值变化不超过 $\pm 10\%$ 。<br>There shall be no case deformation or change in appearance.<br>Inductance shall not change more than $\pm 5\%$ .<br>Q shall not change more than $\pm 10\%$ . | FHW-UC/HC 系列：+125℃ 60 分钟 $\longleftrightarrow$ -40℃ 60 分，钟循环 5 次；<br>FHW-UF/IF/QF/HF 系列：+85℃ 60 分钟 $\longleftrightarrow$ -40℃ 60 分，钟循环 5 次；<br>室温下放置一小时后测试。<br>FHW-UC/HC series : +125℃ 60minutes $\longleftrightarrow$ -40℃ 60minutes 5 Cycles;<br>FHW-UF/IF/QF/HF series : +85℃ 60minutes $\longleftrightarrow$ -40℃ 60minutes 5 Cycles;<br>Inductors are to be tested after 1 hour at room temperature.                        |
| 10        | 高温<br>High temperature     | 外观不发生变化；<br>感量变化不超过 $\pm 5\%$ ；<br>Q 值变化不超过 $\pm 10\%$ 。<br>There shall be no case deformation or change in appearance.<br>Inductance shall not change more than $\pm 5\%$ .<br>Q shall not change more than $\pm 10\%$ . | FHW-UC/HC 系列产品放置于温度+125 $\pm 5^\circ\text{C}$ 的环境中存放 96 $\pm 2$ 小时；<br>FHW-UF/IF/QF/HF 系列产品放置于温度+85 $\pm 5^\circ\text{C}$ 的环境中存放 96 $\pm 2$ 小时；<br>在室温下放置 1 小时后进行测试。<br>FHW-UC/HC series shall be subjected to +125 $\pm 5^\circ\text{C}$ for 96 $\pm 2$ hours;<br>FHW-UF/IF/QF/HF series shall be subjected to +85 $\pm 5^\circ\text{C}$ for 96 $\pm 2$ hours;<br>Inductors are to be tested after one hour at room temperature. |



| 序号<br>No. | 项目<br>Items                 | 要求<br>Requirements                                                                                                                                                                                                            | 试验方法及备注<br>Test Methods and Remarks                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11        | 低温<br>Low<br>temperature    | 外观不发生变化;<br>感量变化不超过 $\pm 5\%$ ;<br>Q 值变化不超过 $\pm 10\%$<br>There shall be no case deformation or<br>change in appearance.<br>Inductance shall not change more than<br>$\pm 5\%$ .<br>Q shall not change more than $\pm 10\%$   | 将电感器放置于温度 $-40\pm 2^{\circ}\text{C}$ 的环境<br>中存放 $96\pm 2$ 小时, 然后在室温下放置<br>1 小时后进行测试。<br>Inductors shall be subjected to<br>$-40\pm 2^{\circ}\text{C}$ for $96\pm 2$ hours.<br>Inductors are to be tested after one<br>hour at room temperature.                                                                                                                                                                                                                  |
| 12        | 恒定湿热<br>Static Humidity     | 外观不发生变化;<br>感量变化不超过 $\pm 5\%$ ;<br>Q 值变化不超过 $\pm 10\%$<br>There shall be no case deformation or<br>change in appearance.<br>Inductance shall not change more than<br>$\pm 5\%$ .<br>Q shall not change more than $\pm 10\%$ . | 将电感器放置在于湿度 $93\pm 3\%$ , 温度 $50\pm 2^{\circ}\text{C}$ 的环境中存放 $96\pm 2$ 小时, 经过 1 小时的风干后进行测试。<br>Inductors shall be subjected to<br>$93\pm 3\%$ R.H. at $50\pm 2^{\circ}\text{C}$ for $96\pm 2$ hours . Inductors are to be tested after having air dried for one hou.                                                                                                                                                                                             |
| 13        | 耐久性<br>durability<br>(Life) | 电感器不应短路或断路。<br>Inductors shall not have a shorted or<br>open winding.                                                                                                                                                         | FHW-UC/HC 系列产品加额定电流在 $125\pm 2^{\circ}\text{C}$ 温度条件下存放 1000 小时;<br>FHW-UF/IF/QF/HF 系列产品加额定电流在 $85\pm 2^{\circ}\text{C}$ 温度条件下存放 1000 小时;<br>然后在室温下放置 4 小时后进行测试。<br>FHW-UC/HC series shall be store at $125\pm 2^{\circ}\text{C}$ for 1000 hours with rated current applied;<br>FHW-UF/IF/QF/HF series shall be store at $85\pm 2^{\circ}\text{C}$ for 1000 hours with rated current applied;<br>Inductors shall be tested after four hours at room temperature. |

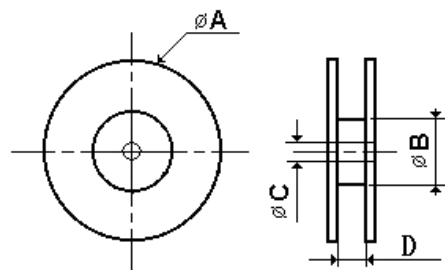
## 6 产品包装 Packaging

### 1) 编带图 Taping drawings

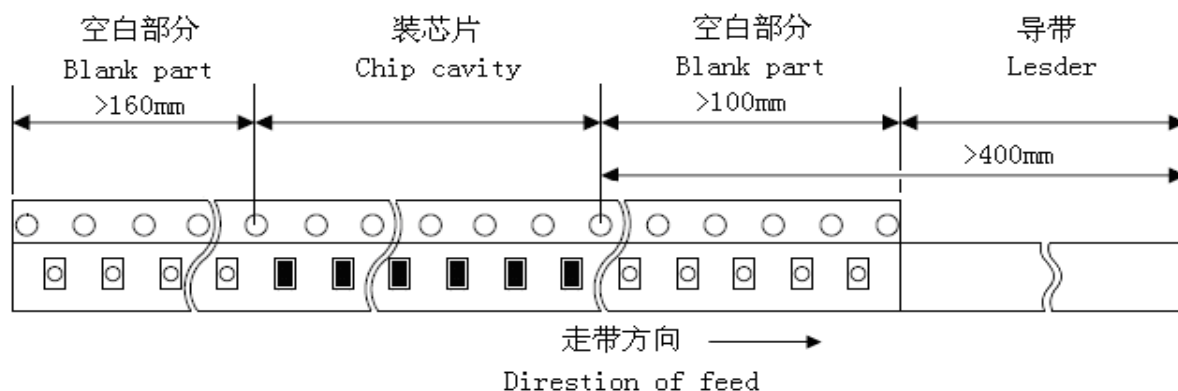


### 2) 卷盘尺寸 Reel dimensions (Unit:mm)

| Part NO.  | ΦA<br>typ. | ΦB<br>typ. | ΦC<br>typ. | D typ. |
|-----------|------------|------------|------------|--------|
| 0402-1210 | 178        | 60         | 13         | 8.4    |
| 1812      | 330        | 98         | 13         | 16.4   |

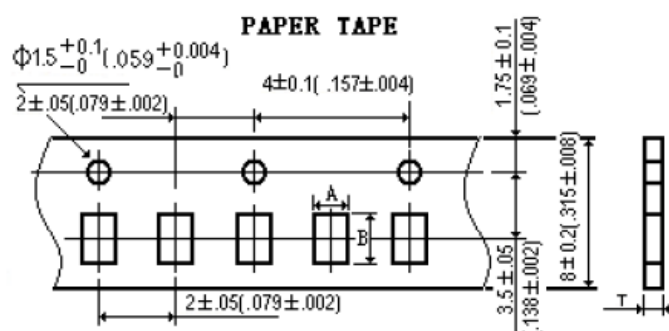


### 3) 导带及空格部分 Leader and blank portion



### 4) 编带尺寸 Taping dimensions (Unit: mm)

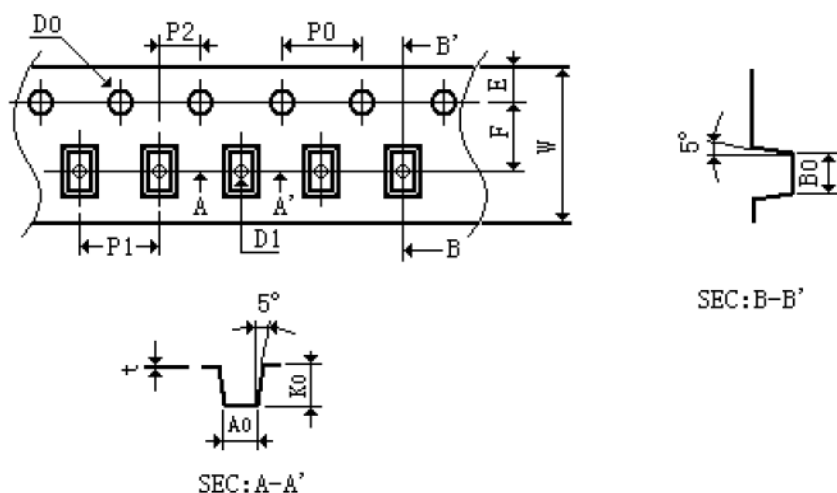
#### ● 纸带 Paper tape



| Part NO. | A    | B    | T    |
|----------|------|------|------|
| 0402     | 0.74 | 1.23 | 0.60 |

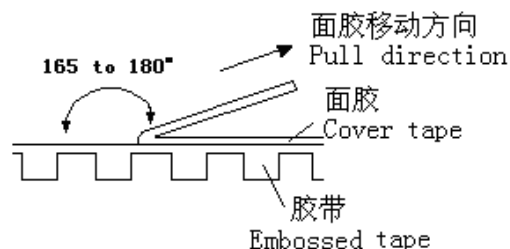
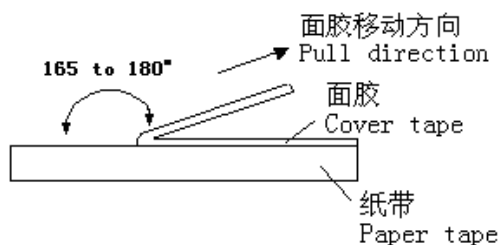


● 塑料胶带 Embossed tape



| Part NO. | 0603  | 0805  | 1008  | 1210  | 1812  |
|----------|-------|-------|-------|-------|-------|
| W        | 8.00  | 8.00  | 8.00  | 8.00  | 12.00 |
| E        | 1.75  | 1.75  | 1.75  | 1.75  | 1.75  |
| F        | 3.50  | 3.50  | 3.50  | 3.50  | 5.50  |
| D0       | 1.50  | 1.50  | 1.50  | 1.50  | 1.50  |
| D1       | 0.50  | 0.65  | 0.65  | 0.65  | 1.50  |
| P0       | 4.00  | 4.00  | 4.00  | 4.00  | 4.00  |
| P1       | 4.00  | 4.00  | 4.00  | 4.00  | 8.00  |
| P2       | 2.00  | 2.00  | 2.00  | 2.00  | 2.00  |
| P0×10    | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 |
| t        | 0.23  | 0.23  | 0.25  | 0.23  | 0.25  |
| A0       | 1.15  | 1.85  | 2.73  | 2.96  | 3.22  |
| B0       | 1.85  | 2.45  | 2.90  | 3.60  | 4.82  |
| K0       | 0.95  | 1.50  | 2.34  | 2.40  | 2.98  |

5) 剥离力检验 Peeling off force



①盖带的剥离力要求 Peeling required

0402~1210 系列：20 克~80 克；1812 系列：20 克~100 克

0402~1210 series：20g~80g；1812 series：20g~100g

②测试条件 Test condition

盖带剥离速度：300mm/min±10%

Speed of peeling off：300mm/min±10%

盖带剥离角度：165° ~180°

Angle of peeling off：165° ~180°



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

| 类型 Size          |        | 1812  | 1210   | 1008   | 0805   | 0603   | 0402   |
|------------------|--------|-------|--------|--------|--------|--------|--------|
| 每卷数量 Per Reel    |        | 2000  | 2000   | 2000   | 3000   | 4000   | 5000   |
| 每盒数量<br>Per Box  | 3 卷盒   | ----- | 6000   | 6000   | 9000   | 12000  | 15000  |
|                  | 5 卷盒   | 10000 | 10000  | 10000  | 15000  | 20000  | 25000  |
|                  | 10 卷盒  | ----- | 20000  | 20000  | 30000  | 40000  | 50000  |
| 每箱数量<br>Per Case | 1.5 盒箱 | ----- | 30000  | 30000  | 45000  | 60000  | 75000  |
|                  | 3 盒箱   | ----- | 60000  | 60000  | 90000  | 120000 | 150000 |
|                  | 4 盒箱   | ----- | 80000  | 80000  | 120000 | 160000 | 200000 |
|                  | 5 盒箱   | ----- | 120000 | 120000 | 180000 | 240000 | 300000 |
|                  | 大 3 盒箱 | 30000 | -----  | -----  | -----  | -----  | -----  |

7) 标签粘贴位置 Label stick station

| 卷盘标签                                                                               | 纸盒标签                                                                               | 纸盒标签                                                                                | 外箱标签                                                                                 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |

## 7 推荐焊接条件 Recommend Soldering Conditions

### 1) 焊接条件 Soldering Conditions

本产品建议使用回流焊接法。

Applicable soldering process to the products is reflow soldering.

#### ① 焊剂要求 Flux, Solder

- 使用松香基助焊剂, 禁止使用卤化物含量超过 0.2 (wt)% 的强酸性助焊剂。

Don't use highly acidic flux with halide content exceeding 0.2(wt)%(chlorine conversion value).

- 使用无铅焊料 (96.5Sn /3.0Ag/0.5Cu)。

Using lead-free solder (96.5Sn /3.0Ag/0.5Cu)。

#### ② 焊接要求 Soldering conditions

- 预热时, 产品表温与焊料温度的温差最大不允许超出 150℃, 焊接完冷却时, 产品表温与溶剂温度之间的温差最大不超过 100℃。预热不足有可能引发产品表面裂纹, 从而导致产品品质下降。

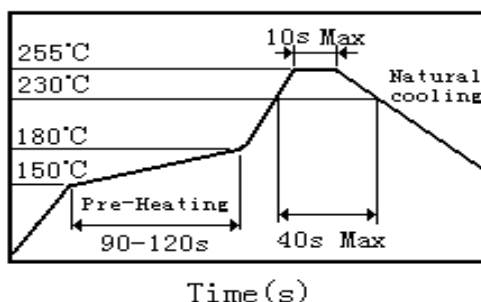
Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150℃ max. Also cooling into solvent after soldering should be in such way that the temperature difference is limited to 100℃ max. Un-enough pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.



- 产品要在以下画出的曲线允许的范围内进行焊接。其它焊接条件可能引起产品电极的腐蚀。当焊接重复时，允许的时间为第一次做的累计时间。

Products should be soldered within the following allowable range indicated by the slanted line. The excessive soldering conditions may cause the corrosion of the electrode. When soldering is repeated, allowable time is the accumulated time.

## 2) 回流焊曲线 Reflow soldering profile



## 3) 手工焊接 Iron soldering

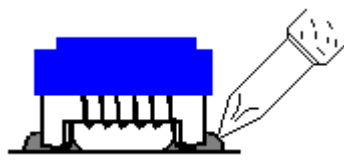
烙铁温度：350°C (Max)

功率：最大为 30W

烙铁停留时间：<5S (注意不要将烙铁碰到产品线圈及包封层)。

Perform soldering at 350°C on 30W max.

Soldering Time: < 5S (Take care not to apply the tip of the soldering iron to the terminal electrodes)。



# 8 清洗 Cleaning

## 1) 清洗条件 Cleaning Conditions

- a. 清洗温度 : 60°C (Max)      Cleaning temperature : 60°C max.
- b. 清洗时间 : 5 分钟 (Max)      Cleaning time: 5 minutes Max.
- c. 超声波功率: 最大为 200W      Ultrasonic output power: 200W max.

# 9 存储要求 Storage Requirements

## 1) 存储期限 Storage period

距电感公司出厂检验时间 6 个月内，产品可以使用检验时间可以通过包装外侧标记的检验号确认。若时间超过 6 个月，应检查焊接性能后方可使用。

Products which inspected in INDUCTOR COMPANY over 6 months ago should be examined and used, which can be Confirmed with inspection No. marked on the container. Solder ability should be checked if this period is exceeded.



## 2) 存储条件 Storage conditions

- (1) 存放货物的库房应满足以下条件：温度：-10 ~ +40℃，相对湿度：30 ~ 70%。
- (2) 禁止将产品保管在腐蚀性物质中，如硫磺、氯气或酸，否则将引起端头氧化，导致降低焊接性。
- (3) 为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。
- (4) 产品保管在库房中，应避免热冲击、振动以及直接光照等等。
- (5) 产品应密封包装。

- (1) Products should be storage in the warehouse on the following conditions:

Temperature : -10~+40℃      Humidity: 30~70% relative humidity

- (2) Don't keep products in corrosive gases such as sulfur, chlorine gas or acid , or it may case oxidization of Electrodes resulting in poor solder ability.
- (3) Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.
- (4) Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.
- (5) Products should be stored under the airtight packaged condition.

## 10 ODS（消耗臭氧层物质）的使用情况 Usage Of ODS

对于以下所列物质，我公司在生产过程中绝不使用。

ODS: CCl<sub>4</sub>（四氯化碳）、HCFC 等。

For ODS listed below , we don't use in process.

ODS: CCl<sub>4</sub>, HCFC, etc.

## 11 注意事项 Notes

- (1) RoHS 指令 Response to RoHS directive

本公司产品符合 RoHS 指令。

Our products are RoHS compliance.

- (2) 本承认书保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时请保证贵司的产品已根据贵司的规范进行了有效评价和确认。

This product specification guarantees the quality of our product as a single unit, Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.

- (3) 如果贵司对我司产品的试用已超过了本测试规范所界定的产品功能，对于此所引发的失效我司将不予保证。

We can't warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

- (4) 为防止断线，请不要使用锋利的物体接触线圈，如镊子。

Do not touch wire with sharp objects such as tweezers to prevent wire breakage.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for [Fixed Inductors](#) category:***

***Click to view products by [Fenghua Advanced](#) manufacturer:***

Other Similar products are found below :

[MLZ1608M6R8WTD25](#) [MLZ1608N6R8LT000](#) [MLZ1608N3R3LTD25](#) [MLZ1608N3R3LT000](#) [MLZ1608N150LT000](#)  
[MLZ1608M150WTD25](#) [MLZ1608M3R3WTD25](#) [MLZ1608M3R3WT000](#) [MLZ1608M150WT000](#) [MLZ1608A1R5WT000](#)  
[MLZ1608N1R5LT000](#) [B82432C1333K000](#) [PCMB053T-1R0MS](#) [PCMB053T-1R5MS](#) [PCMB104T-1R5MS](#) [CR32NP-100KC](#) [CR32NP-](#)  
[151KC](#) [CR32NP-180KC](#) [CR32NP-181KC](#) [CR32NP-1R5MC](#) [CR32NP-390KC](#) [CR32NP-3R9MC](#) [CR32NP-680KC](#) [CR32NP-820KC](#)  
[CR32NP-8R2MC](#) [CR43NP-390KC](#) [CR43NP-560KC](#) [CR43NP-680KC](#) [CR54NP-181KC](#) [CR54NP-470LC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#)  
[MGDQ4-00004-P](#) [MGDU1-00016-P](#) [MHL1ECTTP18NJ](#) [MHL1JCTTD12NJ](#) [PE-51506NL](#) [PE-53601NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-](#)  
[62892NL](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#) [PM06-2N7](#) [PM06-39NJ](#) [HC2LP-R47-R](#) [HC2-R47-R](#) [HC3-2R2-R](#) [HC8-1R2-R](#)