

## ■ 繞綫型片式鐵氧體電感

### WIRE WOUND CHIP FERRITE INDUCTORS



#### ● 特征 FEATURES:

- 體積小，適合高密度表面貼裝；
- 採用端電極結構，很好地抑制了引綫引起的寄生元件效應，具有高可靠性；
- 低電阻、高電流和高電感量；
- 優良的焊接性和耐焊性。
- Miniature size, suitable for SMT;
- Using terminal electrode structure to restrain the parasitic component effect quite caused by lead;
- low DC resistance , high current and high inductance;
- Excellent in solderability and heat resistance.

#### ● 應用 APPLICATIONS

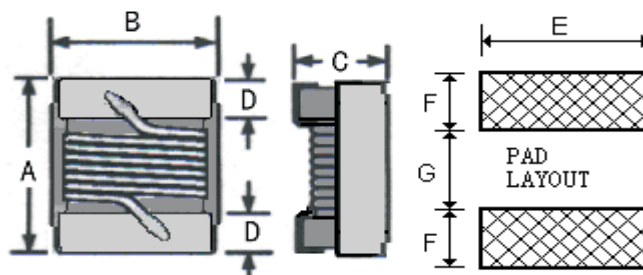
- 視聽設備，無線通訊設備和各類通用電子設備；
- 其他電子設備，包括硬盤和光驅。
- Wireless communication equipment and various types of general electronic equipment;
- Other electronic equipment including HDDs and ODDs.

#### ● 產品規格型號的表示方法 ORDERING CODE

$\frac{FHW}{①}$      $\frac{0805}{②}$      $\frac{UF}{③}$      $\frac{1R0}{④}$      $\frac{J}{⑤}$      $\frac{S}{⑥}$      $\frac{T}{⑦}$

| ①            | ②  | ③              | ④                    | ⑤                  | ⑥              | ⑦                       |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
|--------------|--|----------------|----------------------|--------------------|----------------|-------------------------|---------|------|---------|------|---------|---|----|-----------------|----|--|--|-----|-----|-----|----|-----|-----|-----|------|-----|-------|-----|--------|-----|---------|--|---|----|---|-----|---|-----|---|---|-----|---|---|-------------------|---|--------|
| 產品代號<br>Code | 規格尺寸<br>Dimensions<br>(L × W) (mm)   | 材料<br>Material | 感量(nH)<br>Inductance | 誤差(%)<br>Tolerance | 電極<br>Terminal | 包裝方式<br>Packaging Style |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| FHW          | <table border="1"> <tr><td>0603</td><td>1.6×0.8</td></tr> <tr><td>0805</td><td>2.0×1.2</td></tr> <tr><td>1008</td><td>2.5×2.0</td></tr> <tr><td>1210</td><td>3.2×2.5</td></tr> <tr><td>1812</td><td>4.5×3.2</td></tr> </table> | 0603           | 1.6×0.8              | 0805               | 2.0×1.2        | 1008                    | 2.5×2.0 | 1210 | 3.2×2.5 | 1812 | 4.5×3.2 | <table border="1"> <tr><td>UF</td><td>鐵氧體芯<br/>Ferrite</td></tr> <tr><td>IF</td><td></td></tr> </table> | UF | 鐵氧體芯<br>Ferrite | IF |  | <table border="1"> <tr><td>1N0</td><td>1.0</td></tr> <tr><td>010</td><td>10</td></tr> <tr><td>R10</td><td>100</td></tr> <tr><td>1R0</td><td>1000</td></tr> <tr><td>100</td><td>10000</td></tr> <tr><td>101</td><td>100000</td></tr> <tr><td>102</td><td>1000000</td></tr> </table> | 1N0 | 1.0 | 010 | 10 | R10 | 100 | 1R0 | 1000 | 100 | 10000 | 101 | 100000 | 102 | 1000000 | <table border="1"> <tr><td>J</td><td>±5</td></tr> <tr><td>K</td><td>±10</td></tr> <tr><td>M</td><td>±20</td></tr> </table> | J | ±5 | K | ±10 | M | ±20 | <table border="1"> <tr><td>S</td><td>TIN</td></tr> </table> | S | TIN | <table border="1"> <tr><td>T</td><td>卷帶盤裝<br/>Tape&amp;Reel</td></tr> <tr><td>B</td><td>散裝Bulk</td></tr> </table> | T | 卷帶盤裝<br>Tape&Reel | B | 散裝Bulk |
| 0603         | 1.6×0.8  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 0805         | 2.0×1.2  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 1008         | 2.5×2.0  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 1210         | 3.2×2.5  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 1812         | 4.5×3.2  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| UF           | 鐵氧體芯<br>Ferrite  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| IF           |  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 1N0          | 1.0  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 010          | 10   |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| R10          | 100  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 1R0          | 1000   |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 100          | 10000  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 101          | 100000   |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| 102          | 1000000  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| J            | ±5   |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| K            | ±10  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| M            | ±20  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| S            | TIN  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| T            | 卷帶盤裝<br>Tape&Reel  |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |
| B            | 散裝Bulk   |                |                      |                    |                |                         |         |      |         |      |         |   |    |                 |    |  |  |     |     |     |    |     |     |     |      |     |       |     |        |     |         |  |   |    |   |     |   |     |   |   |     |   |   |                   |   |        |

#### ● 外形尺寸 DIMENSIONS



## 繞線型片式電感器

## WIRE WOUND CHIP INDUCTORS

單位(Unit): mm/inch

| Par NO. | A (Max.)       | B (Max.)       | C (Max.)       | D              | E             | F              | G              |
|---------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|
| 0603    | 1.78<br>(.070) | 1.10<br>(.043) | 0.95<br>(.037) | 0.30<br>(.012) | 1.02<br>(.04) | 0.64<br>(.025) | 0.64<br>(.025) |
| 0805    | 2.30<br>(.091) | 1.70<br>(.067) | 1.52<br>(.060) | 0.50<br>(.020) | 1.78<br>(.07) | 1.02<br>(.04)  | 0.76<br>(.03)  |
| 1008    | 2.92<br>(.115) | 2.79<br>(.110) | 2.10<br>(.083) | 0.5<br>(.020)  | 2.54<br>(.10) | 1.02<br>(.04)  | 1.27<br>(.05)  |
| 1210    | 3.50<br>(.138) | 2.90<br>(.114) | 2.25<br>(.088) | 0.50<br>(.020) | 2.54<br>(.10) | 1.02<br>(.04)  | 1.78<br>(.07)  |
| 1812    | 4.80<br>(.189) | 3.40<br>(.134) | 3.15<br>(.124) | 0.65<br>(.026) | 3.05<br>(.12) | 1.14<br>(.045) | 3.00<br>(.118) |

### • 電性能參數 ELECTRICAL CHARACTERISTICS

#### 0603UF Series

| PartNumber      | Inductance<br>(nH) | Tolerance<br>(%) | Q<br>( min) | SRF(MHz)<br>Min | Rdc( Ω )<br>Max | Idc( mA)<br>Max |
|-----------------|--------------------|------------------|-------------|-----------------|-----------------|-----------------|
| FHW0603UFR10□ST | 100@7.9MHz         | 10,5             | 12@7.9MHz   | 1150            | 0.13            | 1000            |
| FHW0603UFR12□ST | 120@7.9MHz         | 10,5             | 12@7.9MHz   | 1100            | 0.16            | 1000            |
| FHW0603UFR15□ST | 150@7.9MHz         | 10,5             | 12@7.9MHz   | 1050            | 0.15            | 1000            |
| FHW0603UFR18□ST | 180@7.9MHz         | 10,5             | 12@7.9MHz   | 950             | 0.15            | 1000            |
| FHW0603UFR22□ST | 220@7.9MHz         | 10,5             | 12@7.9MHz   | 900             | 0.16            | 900             |
| FHW0603UFR27□ST | 270@7.9MHz         | 10,5             | 12@7.9MHz   | 775             | 0.30            | 700             |
| FHW0603UFR33□ST | 330@7.9MHz         | 10,5             | 12@7.9MHz   | 725             | 0.32            | 600             |
| FHW0603UFR39□ST | 390@7.9MHz         | 10,5             | 12@7.9MHz   | 620             | 0.51            | 500             |
| FHW0603UFR47□ST | 470@7.9MHz         | 10,5             | 12@7.9MHz   | 540             | 0.62            | 420             |
| FHW0603UFR56□ST | 560@7.9MHz         | 10,5             | 12@7.9MHz   | 600             | 0.65            | 400             |
| FHW0603UFR68□ST | 680@7.9MHz         | 10,5             | 12@7.9MHz   | 500             | 1.00            | 380             |
| FHW0603UFR82□ST | 820@7.9MHz         | 10,5             | 12@7.9MHz   | 500             | 1.30            | 350             |
| FHW0603UF1R0□ST | 1000@7.9MHz        | 10,5             | 12@7.9MHz   | 400             | 1.50            | 330             |
| FHW0603UF1R2□ST | 1200@7.9MHz        | 10,5             | 12@7.9MHz   | 380             | 1.70            | 320             |
| FHW0603UF1R5□ST | 1500@7.9MHz        | 10,5             | 12@7.9MHz   | 300             | 1.90            | 310             |
| FHW0603UF1R8□ST | 1800@7.9MHz        | 10,5             | 12@7.9MHz   | 180             | 2.20            | 300             |
| FHW0603UF2R2□ST | 2200@7.9MHz        | 10,5             | 12@7.9MHz   | 180             | 2.30            | 280             |
| FHW0603UF2R7□ST | 2700@7.9MHz        | 10,5             | 12@7.9MHz   | 150             | 2.60            | 250             |
| FHW0603UF3R3□ST | 3300@7.9MHz        | 10,5             | 12@7.9MHz   | 150             | 2.90            | 230             |
| FHW0603UF3R9□ST | 3900@7.9MHz        | 10,5             | 12@7.9MHz   | 120             | 3.20            | 210             |
| FHW0603UF4R7□ST | 4700@7.9MHz        | 10,5             | 12@7.9MHz   | 100             | 4.00            | 200             |

**0805UF Series**

| PartNumber      | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Q<br>(min) | SRF(MHz)<br>Min | Rdc( $\Omega$ )<br>Max | Idc(mA)<br>Max |
|-----------------|--------------------------|------------------|------------|-----------------|------------------------|----------------|
| FHW0805UF1R0□ST | 1.0@7.96MHz              | 10,5             | 12@7.96MHz | 360             | 1.00                   | 430            |
| FHW0805UF1R2□ST | 1.2@7.96MHz              | 10,5             | 12@7.96MHz | 350             | 1.15                   | 410            |
| FHW0805UF1R5□ST | 1.5@7.96MHz              | 10,5             | 12@7.96MHz | 300             | 1.20                   | 400            |
| FHW0805UF1R8□ST | 1.8@7.96MHz              | 10,5             | 12@7.96MHz | 200             | 1.35                   | 380            |
| FHW0805UF2R2□ST | 2.2@7.96MHz              | 10,5             | 12@7.96MHz | 170             | 1.50                   | 350            |
| FHW0805UF2R7□ST | 2.7@7.96MHz              | 10,5             | 12@7.96MHz | 100             | 1.70                   | 320            |
| FHW0805UF3R3□ST | 3.3@7.96MHz              | 10,5             | 12@7.96MHz | 90              | 1.80                   | 300            |
| FHW0805UF3R9□ST | 3.9@7.96MHz              | 10,5             | 12@7.96MHz | 90              | 1.95                   | 280            |
| FHW0805UF4R7□ST | 4.7@7.96MHz              | 10,5             | 12@7.96MHz | 85              | 2.05                   | 250            |
| FHW0805UF5R6□ST | 5.6@7.96MHz              | 10,5             | 12@7.96MHz | 70              | 2.30                   | 240            |
| FHW0805UF6R8□ST | 6.8@7.96MHz              | 10,5             | 12@7.96MHz | 55              | 2.60                   | 220            |
| FHW0805UF7R5□ST | 7.5@7.96MHz              | 10,5             | 12@7.96MHz | 55              | 2.80                   | 210            |
| FHW0805UF8R2□ST | 8.2@7.96MHz              | 10,5             | 12@7.96MHz | 50              | 3.00                   | 180            |
| FHW0805UF100□ST | 10@2.52MHz               | 10,5             | 10@2.52MHz | 30              | 3.20                   | 150            |
| FHW0805UF120□ST | 12@2.52MHz               | 10,5             | 10@2.52MHz | 17              | 3.50                   | 110            |
| FHW0805UF150□ST | 15@2.52MHz               | 10,5             | 10@2.52MHz | 16              | 4.20                   | 100            |
| FHW0805UF180□ST | 18@2.52MHz               | 10,5             | 10@2.52MHz | 15              | 4.50                   | 95             |
| FHW0805UF220□ST | 22@2.52MHz               | 10,5             | 10@2.52MHz | 14              | 6.00                   | 80             |

**1008IF Series**

| PartNumber      | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Q<br>(min) | SRF(MHz)<br>Min | Rdc( $\Omega$ )<br>Max | Idc(mA)<br>Max |
|-----------------|--------------------------|------------------|------------|-----------------|------------------------|----------------|
| FHW1008IF1R0□ST | 1.0@25.2MHz              | 10,5             | 18@25.2MHz | 300             | 0.55                   | 580            |
| FHW1008IF1R2□ST | 1.2@7.96MHz              | 10,5             | 18@7.96MHz | 250             | 0.75                   | 550            |
| FHW1008IF1R5□ST | 1.5@7.96MHz              | 10,5             | 18@7.96MHz | 230             | 0.85                   | 400            |
| FHW1008IF1R8□ST | 1.8@7.96MHz              | 10,5             | 18@7.96MHz | 168             | 0.95                   | 320            |
| FHW1008IF2R2□ST | 2.2@7.96MHz              | 10,5             | 18@7.96MHz | 150             | 1.30                   | 315            |
| FHW1008IF2R7□ST | 2.7@7.96MHz              | 10,5             | 18@7.96MHz | 100             | 1.40                   | 300            |
| FHW1008IF3R3□ST | 3.3@7.96MHz              | 10,5             | 18@7.96MHz | 80              | 1.50                   | 280            |
| FHW1008IF3R9□ST | 3.9@7.96MHz              | 10,5             | 18@7.96MHz | 60              | 1.55                   | 250            |
| FHW1008IF4R7□ST | 4.7@7.96MHz              | 10,5             | 18@7.96MHz | 50              | 1.75                   | 210            |
| FHW1008IF5R6□ST | 5.6@7.96MHz              | 10,5             | 15@7.96MHz | 40              | 1.90                   | 190            |
| FHW1008IF6R8□ST | 6.8@7.96MHz              | 10,5             | 15@7.96MHz | 35              | 2.00                   | 175            |
| FHW1008IF7R5□ST | 7.5@7.96MHz              | 10,5             | 15@7.96MHz | 30              | 2.10                   | 170            |
| FHW1008IF8R2□ST | 8.2@7.96MHz              | 10,5             | 15@7.96MHz | 25              | 2.20                   | 160            |
| FHW1008IF100□ST | 10@2.52MHz               | 10,5             | 12@2.52MHz | 25              | 2.50                   | 155            |
| FHW1008IF120□ST | 12@2.52MHz               | 10,5             | 12@2.52MHz | 20              | 2.60                   | 145            |
| FHW1008IF150□ST | 15@2.52MHz               | 10,5             | 12@2.52MHz | 20              | 3.00                   | 130            |
| FHW1008IF180□ST | 18@2.52MHz               | 10,5             | 12@2.52MHz | 20              | 3.00                   | 130            |
| FHW1008IF220□ST | 22@2.52MHz               | 10,5             | 12@2.52MHz | 18              | 3.90                   | 105            |
| FHW1008IF270□ST | 27@2.52MHz               | 10,5             | 12@2.52MHz | 10              | 4.00                   | 100            |
| FHW1008IF330□ST | 33@2.52MHz               | 10,5             | 10@2.52MHz | 8               | 4.80                   | 85             |
| FHW1008IF390□ST | 39@2.52MHz               | 10,5             | 10@2.52MHz | 7               | 5.00                   | 80             |
| FHW1008IF470□ST | 47@2.52MHz               | 10,5             | 10@2.52MHz | 7               | 5.70                   | 60             |
| FHW1008IF560□ST | 56@2.52MHz               | 10,5             | 10@2.52MHz | 6.5             | 6.00                   | 55             |
| FHW1008IF680□ST | 68@2.52MHz               | 10,5             | 10@2.52MHz | 6.5             | 6.70                   | 50             |

## 繞線型片式電感器 WIRE WOUND CHIP INDUCTORS

### 1008IF Series

| PartNumber      | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Q<br>(min) | SRF(MHz)<br>Min | Rdc( $\Omega$ )<br>Max | Idc( mA )<br>Max |
|-----------------|--------------------------|------------------|------------|-----------------|------------------------|------------------|
| FHW1008IF820□ST | 82@2.52MHz               | 10,5             | 10@2.52MHz | 6.5             | 7.50                   | 45               |
| FHW1008IF101□ST | 100@0.796MHz             | 10,5             | 8@0.796MHz | 4.5             | 11.0                   | 40               |
| FHW1008IF121□ST | 120@0.796MHz             | 10,5             | 8@0.796MHz | 3               | 13.0                   | 30               |
| FHW1008IF151□ST | 150@0.796MHz             | 10,5             | 8@0.796MHz | 3               | 15.0                   | 25               |
| FHW1008IF221□ST | 220@0.796MHz             | 10               | 8@0.796MHz | 2.5             | 18.0                   | 20               |

### 1210IF Series

| PartNumber      | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Q<br>(min)  | SRF(MHz)<br>Min | Rdc( $\Omega$ )<br>Max | Idc( mA )<br>Max |
|-----------------|--------------------------|------------------|-------------|-----------------|------------------------|------------------|
| FHW1210IF1R0□ST | 1.0@7.96MHz              | 10,5             | 20@7.96MHz  | 220             | 0.3                    | 450              |
| FHW1210IF1R2□ST | 1.2@7.96MHz              | 10,5             | 20@7.96MHz  | 210             | 0.3                    | 450              |
| FHW1210IF1R5□ST | 1.5@7.96MHz              | 10,5             | 20@7.96MHz  | 200             | 0.4                    | 450              |
| FHW1210IF1R8□ST | 1.8@7.96MHz              | 10,5             | 20@7.96MHz  | 195             | 0.5                    | 450              |
| FHW1210IF2R2□ST | 2.2@7.96MHz              | 10,5             | 20@7.96MHz  | 175             | 0.6                    | 450              |
| FHW1210IF2R7□ST | 2.7@7.96MHz              | 10,5             | 20@7.96MHz  | 120             | 0.7                    | 420              |
| FHW1210IF3R3□ST | 3.3@7.96MHz              | 10,5             | 20@7.96MHz  | 80              | 1.1                    | 380              |
| FHW1210IF3R9□ST | 3.9@7.96MHz              | 10,5             | 20@7.96MHz  | 75              | 1.2                    | 360              |
| FHW1210IF4R7□ST | 4.7@7.96MHz              | 10,5             | 18@7.96MHz  | 60              | 1.3                    | 350              |
| FHW1210IF5R6□ST | 5.6@7.96MHz              | 10,5             | 18@7.96MHz  | 50              | 2.0                    | 320              |
| FHW1210IF6R8□ST | 6.8@7.96MHz              | 10,5             | 18@7.96MHz  | 35              | 1.5                    | 310              |
| FHW1210IF8R2□ST | 8.2@7.96MHz              | 10,5             | 18@7.96MHz  | 35              | 1.6                    | 305              |
| FHW1210IF100□ST | 10@2.52MHz               | 10,5             | 15@2.52MHz  | 30              | 1.0                    | 300              |
| FHW1210IF120□ST | 12@2.52MHz               | 10,5             | 15@2.52MHz  | 25              | 1.2                    | 265              |
| FHW1210IF150□ST | 15@2.52MHz               | 10,5             | 15@2.52MHz  | 22              | 2.0                    | 225              |
| FHW1210IF180□ST | 18@2.52MHz               | 10,5             | 15@2.52MHz  | 22              | 2.1                    | 210              |
| FHW1210IF220□ST | 22@2.52MHz               | 10,5             | 15@2.52MHz  | 20              | 2.4                    | 200              |
| FHW1210IF270□ST | 27@2.52MHz               | 10,5             | 15@2.52MHz  | 18              | 2.7                    | 180              |
| FHW1210IF330□ST | 33@2.52MHz               | 10,5             | 15@2.52MHz  | 15              | 2.9                    | 160              |
| FHW1210IF390□ST | 39@2.52MHz               | 10,5             | 15@2.52MHz  | 16              | 4.7                    | 150              |
| FHW1210IF470□ST | 47@2.52MHz               | 10,5             | 15@2.52MHz  | 10              | 5.2                    | 140              |
| FHW1210IF560□ST | 56@2.52MHz               | 10,5             | 15@2.52MHz  | 8.0             | 5.6                    | 125              |
| FHW1210IF680□ST | 68@2.52MHz               | 10,5             | 12@2.52MHz  | 5.0             | 4.7                    | 110              |
| FHW1210IF820□ST | 82@2.52MHz               | 10,5             | 12@2.52MHz  | 5.0             | 5.6                    | 100              |
| FHW1210IF101□ST | 100@0.796MHz             | 10,5             | 10@0.796MHz | 5.0             | 6.8                    | 95               |
| FHW1210IF121□ST | 120@0.796MHz             | 10,5             | 10@0.796MHz | 4.0             | 7.9                    | 85               |
| FHW1210IF151□ST | 150@0.796MHz             | 10,5             | 10@0.796MHz | 4.0             | 9.0                    | 80               |
| FHW1210IF181□ST | 180@0.796MHz             | 10,5             | 8@0.796MHz  | 3.0             | 14.5                   | 70               |
| FHW1210IF221□ST | 220@0.796MHz             | 10,5             | 8@0.796MHz  | 2.6             | 16.5                   | 65               |
| FHW1210IF271□ST | 270@0.796MHz             | 10               | 8@0.796MHz  | 2.5             | 18.0                   | 60               |
| FHW1210IF331□ST | 330@0.796MHz             | 10               | 8@0.796MHz  | 2.3             | 19.0                   | 55               |
| FHW1210IF391□ST | 390@0.796MHz             | 10               | 8@0.796MHz  | 2.2             | 21.5                   | 45               |
| FHW1210IF471□ST | 470@0.796MHz             | 10               | 8@0.796MHz  | 2.0             | 22.5                   | 40               |
| FHW1210IF561□ST | 560@0.796MHz             | 10               | 6@0.796MHz  | 1.5             | 28.0                   | 30               |

**1812IF Series**

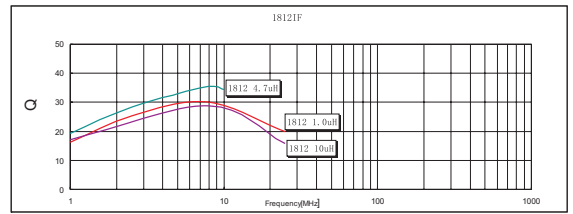
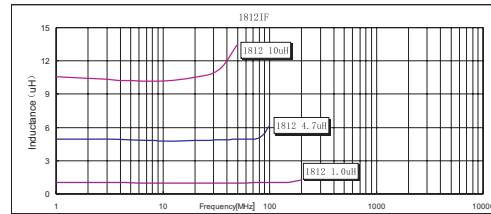
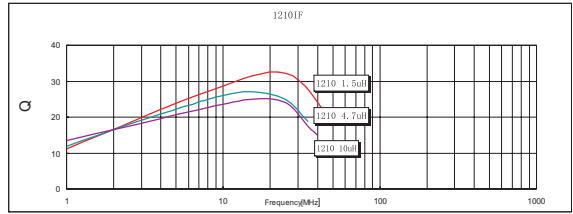
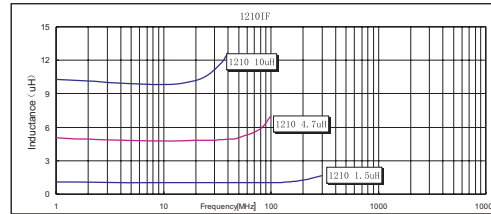
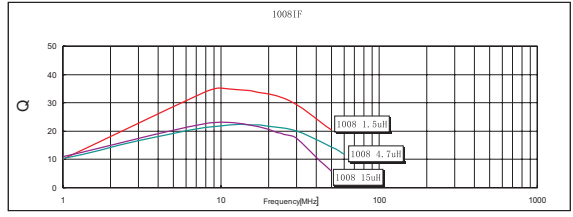
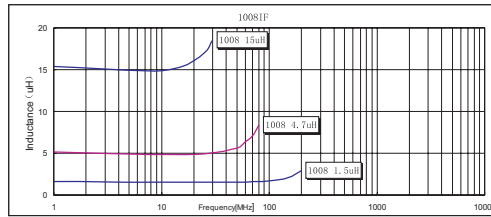
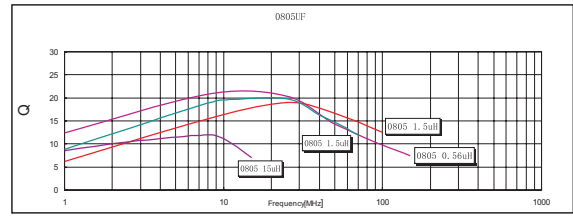
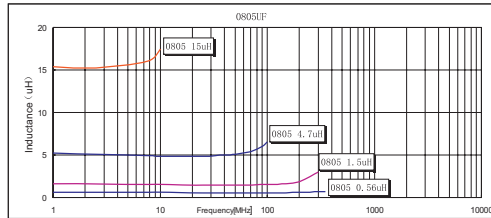
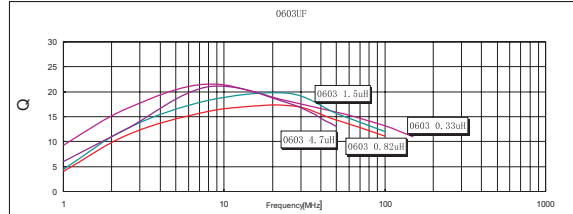
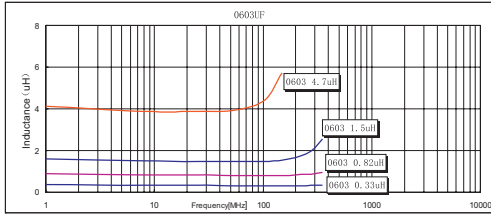
| PartNumber      | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Q(min)      | SRF(MHz)<br>Min | Rdc( $\Omega$ )<br>Max | Idc( mA )<br>Max |
|-----------------|--------------------------|------------------|-------------|-----------------|------------------------|------------------|
| FHW1812IF1R0□ST | 1.0@7.96MHz              | 10,5             | 25@7.96MHz  | 200             | 0.22                   | 1000             |
| FHW1812IF1R2□ST | 1.2@7.96MHz              | 10,5             | 25@7.96MHz  | 200             | 0.35                   | 1000             |
| FHW1812IF1R5□ST | 1.5@7.96MHz              | 10,5             | 25@7.96MHz  | 180             | 0.32                   | 1000             |
| FHW1812IF1R8□ST | 1.8@7.96MHz              | 10,5             | 25@7.96MHz  | 160             | 0.35                   | 950              |
| FHW1812IF2R2□ST | 2.2@7.96MHz              | 10,5             | 25@7.96MHz  | 150             | 0.37                   | 900              |
| FHW1812IF2R7□ST | 2.7@7.96MHz              | 10,5             | 25@7.96MHz  | 145             | 0.37                   | 850              |
| FHW1812IF3R3□ST | 3.3@7.96MHz              | 10,5             | 25@7.96MHz  | 140             | 0.48                   | 800              |
| FHW1812IF3R9□ST | 3.9@7.96MHz              | 10,5             | 25@7.96MHz  | 135             | 0.60                   | 750              |
| FHW1812IF4R7□ST | 4.7@7.96MHz              | 10,5             | 25@7.96MHz  | 120             | 1.00                   | 700              |
| FHW1812IF5R6□ST | 5.6@7.96MHz              | 10,5             | 25@7.96MHz  | 110             | 0.55                   | 650              |
| FHW1812IF6R8□ST | 6.8@7.96MHz              | 10,5             | 25@7.96MHz  | 80              | 0.80                   | 600              |
| FHW1812IF8R2□ST | 8.2@7.96MHz              | 10,5             | 20@7.96MHz  | 70              | 0.85                   | 600              |
| FHW1812IF100□ST | 10@2.52MHz               | 10,5             | 20@2.52MHz  | 60              | 1.0                    | 550              |
| FHW1812IF120□ST | 12@2.52MHz               | 10,5             | 20@2.52MHz  | 55              | 1.1                    | 550              |
| FHW1812IF150□ST | 15@2.52MHz               | 10,5             | 18@2.52MHz  | 35              | 1.2                    | 500              |
| FHW1812IF180□ST | 18@2.52MHz               | 10,5             | 18@2.52MHz  | 29              | 1.2                    | 500              |
| FHW1812IF220□ST | 22@2.52MHz               | 10,5             | 18@2.52MHz  | 20              | 1.3                    | 450              |
| FHW1812IF270□ST | 27@2.52MHz               | 10,5             | 18@2.52MHz  | 20              | 1.5                    | 400              |
| FHW1812IF330□ST | 33@2.52MHz               | 10,5             | 18@2.52MHz  | 18              | 1.7                    | 350              |
| FHW1812IF390□ST | 39@2.52MHz               | 10,5             | 18@2.52MHz  | 14              | 1.8                    | 350              |
| FHW1812IF470□ST | 47@2.52MHz               | 10,5             | 16@2.52MHz  | 10              | 2.0                    | 300              |
| FHW1812IF560□ST | 56@2.52MHz               | 10,5             | 16@2.52MHz  | 10              | 2.2                    | 290              |
| FHW1812IF680□ST | 68@2.52MHz               | 10,5             | 12@2.52MHz  | 5.4             | 2.4                    | 260              |
| FHW1812IF820□ST | 82@2.52MHz               | 10,5             | 12@2.52MHz  | 5.2             | 2.8                    | 240              |
| FHW1812IF101□ST | 100@0.796MHz             | 10,5             | 12@0.796MHz | 4.0             | 3.0                    | 220              |
| FHW1812IF121□ST | 120@0.796MHz             | 10,5             | 10@0.796MHz | 3.3             | 3.3                    | 220              |
| FHW1812IF151□ST | 150@0.796MHz             | 10,5             | 10@0.796MHz | 3.0             | 3.7                    | 200              |
| FHW1812IF181□ST | 180@0.796MHz             | 10,5             | 10@0.796MHz | 3.0             | 4.5                    | 200              |
| FHW1812IF221□ST | 220@0.796MHz             | 10,5             | 10@0.796MHz | 2.5             | 8.0                    | 170              |
| FHW1812IF271□ST | 270@0.796MHz             | 10,5             | 10@0.796MHz | 2.2             | 8.5                    | 160              |
| FHW1812IF331□ST | 330@0.796MHz             | 10               | 10@0.796MHz | 2.0             | 9.0                    | 150              |
| FHW1812IF391□ST | 390@0.796MHz             | 10               | 10@0.796MHz | 1.8             | 9.5                    | 130              |
| FHW1812IF471□ST | 470@0.796MHz             | 10               | 8@0.796MHz  | 1.6             | 12.0                   | 120              |
| FHW1812IF561□ST | 560@0.796MHz             | 10               | 8@0.796MHz  | 1.5             | 12.5                   | 110              |
| FHW1812IF681□ST | 680@0.796MHz             | 10               | 8@0.796MHz  | 1.5             | 14.0                   | 100              |
| FHW1812IF751□ST | 750@0.796MHz             | 10               | 8@0.796MHz  | 1.5             | 14.5                   | 95               |
| FHW1812IF821□ST | 820@0.796MHz             | 10               | 8@0.796MHz  | 1.5             | 15.0                   | 95               |
| FHW1812IF102□ST | 1000@0.252MHz            | 10               | 6@0.252MHz  | 1.4             | 16.5                   | 90               |

特性曲線  
CHARACTERISTIC CURVE

- 頻率特性  
FREQUENCY CHARACTERISTIC

Ls VS FREQ.

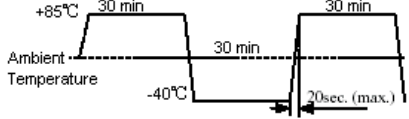
Q VS FREQ.



**電性能測試 Electrical Specification Test**

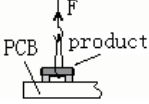
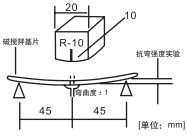
| 序號<br>NO. | 項目<br>Item                       | 詳細說明Specified value                | 試驗方法Test methods  |
|-----------|----------------------------------|------------------------------------|---|
|           |                                  | 0402UC、0603UC、0805UC、1008UC、1210HC |   |
| 1         | 工作溫度<br>Operating Temp.<br>Range | -40°C~+85°C                        |   |
| 2         | 儲存溫度<br>Storage Temp.<br>Range   | -10°C~+40°C                        |   |
| 3         | 額定電流<br>Rated Current            | 20~1000mA(Max)                     | 測試設備: CH102+1320 or<br>HP4284A+HP42841A<br>Test Equipment: CH102+1320 or<br>HP4284A+HP42841A  |
| 4         | 電感量<br>Inductance                | 0.1~1000 $\mu$ H                   | 測試頻率: 0.252~25.2MHz<br>Test Frequency: 0.252~25.2MHz<br>測試設備: HP4285A or HP4286A<br>+16193A or 16197A<br>Test Equipment: HP4285A or<br>HP4286A+16193A or 16197A |
| 5         | 品質因數<br>Q                        | 6~25(min)                          | 測試頻率: 0.252~25.2MHz<br>Test Frequency: 0.252~25.2MHz<br>測試設備: HP4285A or HP4286A<br>+16193A or 16197A<br>Test Equipment: HP4285A or<br>HP4286A+16193A or 16197A |
| 6         | 直流電阻<br>Rdc                      | 0.13~28 $\Omega$ (Max)             | 測試設備: HP4263B or HP4286A<br>Test Equipment: HP4263B or<br>HP4286A   |
| 7         | 自諧頻率<br>SRF                      | 1.4~1150MHz(Min)                   | 測試設備: HP8720D<br>Test Equipment: HP8720D  |

■ 可靠性測試 Reliability Test

| 序號<br>NO. | 項目<br>Item                       | 詳細說明Specified value   | 試驗方法Test methods  |
|-----------|----------------------------------|---|---|
|           |                                  | 0402UC、0603UC、0805UC、1008UC、1210HC  |   |
| 1         | 可焊性<br>Solderability             | 外觀不發生變化;<br>There shall be no case deformation or change in appearance;<br>至少90%端電極表面被焊錫覆蓋。<br>At least 90% of terminal electrode is covered by new solder                                | 焊接溫度: : 245±5°C<br>Solder temp.: 245±5°C<br>浸入時間: 5±1秒<br>Duration:5±1S   |
| 2         | 耐焊性<br>Resistance to soldering   | 外觀不發生變化;<br>There shall be no case deformation or change in appearance;<br>感量變化不超過±5%;<br>Inductance shall not change more than ±5%;<br>Q值變化不超過±10%。<br>Q shall not change more than±10%. | 焊接溫度: : 260±5°C<br>Solder temp.: 260±5°C<br>浸入時間: 10±1秒<br>Duration:10±1S   |
| 3         | 溫度循環<br>Thermal shock            |   | 溫度: -40°C, 60±2分鐘<br>+85°C, 60±2分鐘<br>emperature:-40°C for 60±2min<br>+85°C for 60±2min<br>循環次數: 10<br>Number of cycles:10<br> |
| 4         | 高溫<br>High Temperature storage   |   | 溫度: +85°C±2°C<br>Temperature:+85°C±2°C<br>時間: 96±2小時<br>Time: 96±2h   |
| 5         | 低溫<br>Low Temperature storage    | 溫度: -55°C±2°C<br>Temperature:-55°C±2°C<br>時間: 96±2小時<br>Time: 96±2h   |   |
| 6         | 恒定濕熱<br>Damp heat (steady state) | 外觀不發生變化;<br>There shall be no case deformation or change in appearance;<br>感量變化不超過±5%;<br>Inductance shall not change more than ±5%;<br>Q值變化不超過±10%。<br>Q shall not change more than±10%. | 濕度: 90~95% RH<br>Humidity:90 to 95% RH<br>溫度: 50±2°C<br>Temperature:50±2°C<br>測試時間: 100±2小時<br>Duration: 100±2h   |
| 7         | 振動<br>Vibration                  |   | 頻率: 10~55~10Hz<br>Frequency: 10 to 55 to 10Hz<br>振幅: 1.5mm<br>Amplitude:1.5mm<br>X、Y、Z方向的時間:<br>每方向1小時45分鐘<br>Directions:1 hours 45minutes<br>each in X,Y,Z direction.  |

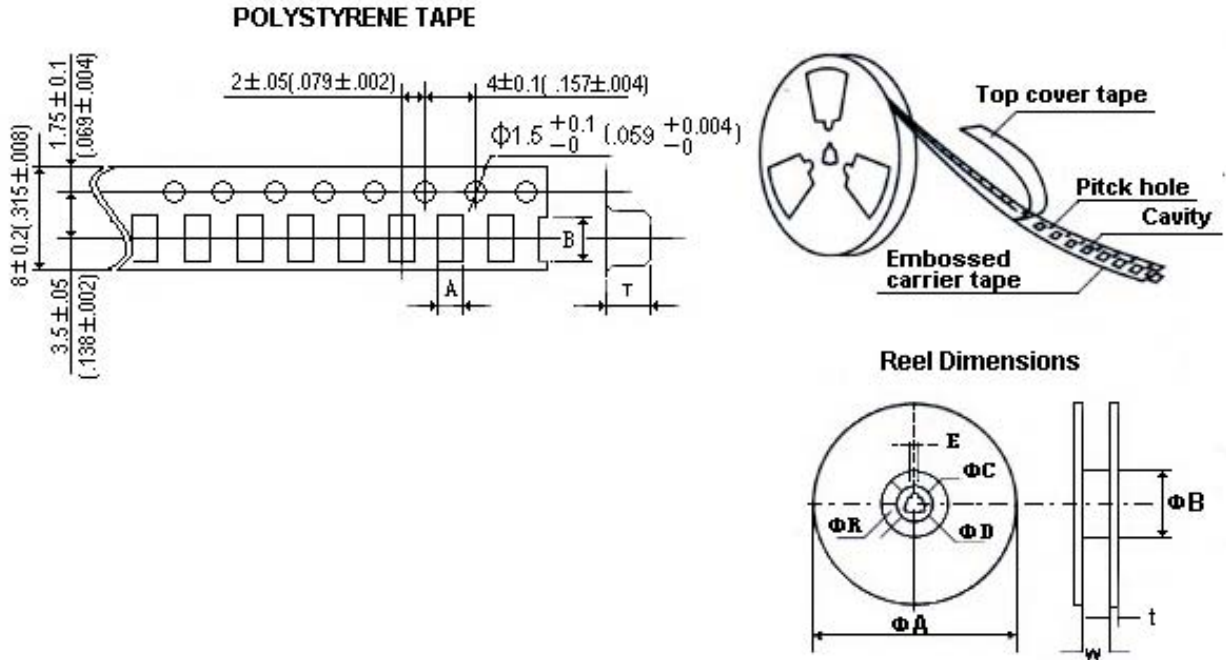


## ■ 可靠性測試 Reliability Test

| 序號<br>NO. | 項目<br>Item                                   | 詳細說明Specified value  | 試驗方法Test methods  |
|-----------|--|--|---|
|           |  | 0603UF、0805UF、1008IF、1210IF、1812IF   |   |
| 8         | 端電極強度<br>Terminal Strength<br>(Pull of Test) | 0603UF: $\geq 0.9\text{Kg}$ ;<br>0805UF: $\geq 1.3\text{Kg}$ ;<br>1008IF、1210IF、1812IF: $\geq 2\text{Kg}$ .  |    |
| 9         | 跌落<br>Drop                                   | 外觀不發生變化;<br>There shall be no case deformation or change in appearance;<br>感量變化不超過 $\pm 5\%$ ;<br>Inductance shall not change more than $\pm 5\%$ ;<br>Q值變化不超過 $\pm 10\%$ .<br>Q shall not change more than $\pm 10\%$ . | 從高度為1米的空中自由落到混凝土地板重復10次。<br>Dropped 10 times on a concrete floor from a height of 1m.   |
| 10        | 抗彎強度<br>Flextrue strength                    | 外觀不發生變化;<br>There shall be no case deformation or change in appearance;<br>感量變化不超過 $\pm 5\%$ ;<br>Inductance shall not change more than $\pm 5\%$ ;<br>Q值變化不超過 $\pm 10\%$ .<br>Q shall not change more than $\pm 10\%$ . | Flexure:20mm<br>Test board:Glass<br>-Epoxy board<br>Thickness:0.8mm<br>     |
| 11        | 過載<br>Over Loading                           | 外觀不發生變化;<br>Appearance:No Damage ;<br>電感無開路。<br>Inductors shall not have a open winding.   | 施加2倍額定電流，電流誤差為 $\pm 2\%$ ，保持5分鐘。<br>Provide 2 times the rated current of direct current between inductor terminals, Direct current error 5%, and for 5 minutes. |
| 12        | 壽命<br>Life                                   | 外觀不發生變化;<br>There shall be no case deformation or change in appearance;<br>感量變化不超過 $\pm 5\%$ ;<br>Inductance shall not change more than $\pm 5\%$ ;<br>Q值變化不超過 $\pm 10\%$ .<br>Q shall not change more than $\pm 10\%$ . | 溫度: $85\pm 2^\circ\text{C}$<br>Temperature: $85\pm 2^\circ\text{C}$<br>測試時間: 1000小時<br>Duration: 1000h<br>施加額定電流<br>Applied current: Rated current.             |

■ 包裝 Packaging Style

● 載帶 Tape



Unit(mm)

| 型號Type                    | A    | B    | T    |      |
|---------------------------|------|------|------|------|
| 膠帶<br>Polystyrene<br>tape | 0603 | 1.18 | 1.85 | 0.95 |
|                           | 0805 | 1.85 | 2.45 | 1.50 |
|                           | 1008 | 2.73 | 2.90 | 2.34 |
|                           | 1210 | 2.96 | 3.60 | 2.40 |
|                           | 1812 | 3.22 | 4.82 | 2.98 |

Unit(mm)

| 型號Type       | $\Phi A$ | $\Phi B$ | $\Phi C$ | $\Phi D$ | E | W  | t | R |
|--------------|----------|----------|----------|----------|---|----|---|---|
| 0603<br>1210 | 178      | 60       | 13       | 21       | 2 | 10 | 2 | 1 |
| 1812         | 330      | 75       | 13       | 23       | 2 | 12 | 2 | 1 |

● 剝離力Peeling off force

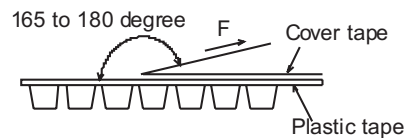
要求Pull strength

0603~1210 : 20g ~80g

1812 : 20g ~100g

蓋帶剝離速度Speed of peeling off:

300mm/min ± 10%



● 包裝數量

Packaging Quantity

| 規格Dimension        | 0603  | 0805  | 1008  | 1210  | 1812 |
|--------------------|-------|-------|-------|-------|------|
| 每卷數量Per Reel (pcs) | 4000  | 3000  | 2000  | 2000  | 2000 |
| 每盒數量Per Box (pcs)  | 20000 | 15000 | 10000 | 10000 | 8000 |

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[MLZ1608N1R5LT000](#) [B82432C1333K000](#) [PCMB053T-1R0MS](#) [PCMB053T-1R5MS](#) [PCMB104T-1R5MS](#) [CR32NP-100KC](#) [CR32NP-](#)

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[CR32NP-8R2MC](#) [CR43NP-390KC](#) [CR43NP-560KC](#) [CR43NP-680KC](#) [CR54NP-181KC](#) [CR54NP-470LC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#)

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[62892NL](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#) [PM06-2N7](#) [PM06-39NJ](#) [HC2LP-R47-R](#) [HC2-R47-R](#) [HC3-2R2-R](#) [HC8-1R2-R](#)