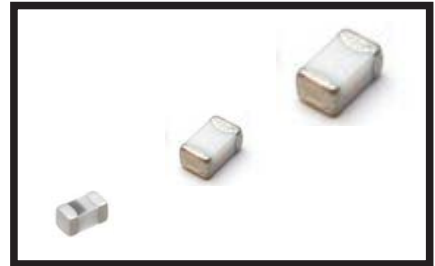


# 疊層片式高頻電感 CHIP HIGH FREQUENCY INDUCTORS

## 疊層片式高頻電感 CHIP HIGH FREQUENCY INDUCTORS



|                 |              |              |
|-----------------|--------------|--------------|
| OPERATING TEMP. | 0603<br>1005 | : -55~+125°C |
|                 | 1608<br>2012 | : -40~+85°C  |

### ● 特征 FEATURES

- 高自諧振頻率。
- 疊層獨石結構，具有高可靠性。
- 優良的焊接性和耐焊性，適合于回流焊和波峰焊。
- High self-resonant frequency.
- Multilayer monolithic construction yields high reliability
- Excellent solderability and heat resistance for either wave or reflow soldering.

### ● 應用 APPLICATIONS

- 移動電話、尋呼機、PHS和PDA
- 各種高頻回路
- 抑制各種高頻雜波
- Portable telephone、Pagers、PHS and PDA
- Miscellaneous high-frequency circuits
- EMI countermeasure in high frequency circuits

### ● 產品規格型號的表示方法 ORDERING CODE

|     |        |   |     |   |   |
|-----|--------|---|-----|---|---|
| VHF | 201209 | H | 47N | J | T |
| ①   | ②      | ③ | ④   | ⑤ | ⑥ |

| ① 產品代號<br>Product Code |   | ② 規格尺寸(L×W×T)(mm)<br>Dimensions |             | ③ 材料代號<br>Material Code | ④ 感量(nH)<br>Inductance |     | ⑤ 誤差<br>Tolerance |        | ⑥ 包裝方式<br>Packaging Style |                   |
|------------------------|---|---------------------------------|-------------|-------------------------|------------------------|-----|-------------------|--------|---------------------------|-------------------|
| VHF                    | 疊層片式<br>高頻電感<br><br>Very High<br>Frequency<br>Inductors | 060303                          | 0.6×0.3×0.3 | H                       | 1N0                    | 1.0 | S                 | ±0.3nH | T                         | 卷帶盤裝<br>Tape&Reel |
|                        |   | 100505                          | 1.0×0.5×0.5 | HQ                      | 10N                    | 10  | D                 | ±0.5nH |                           |                   |
|                        |   | 160808                          | 1.6×0.8×0.8 |                         | J                      | ±5% | J                 | ±5%    | B                         | 散裝<br>Bulk        |
|                        |   | 201209                          | 2.0×1.2×0.9 |                         | R10                    | 100 | K                 | ±10%   |                           |                   |
|                        |   |                                 |             |                         |                        |     | M                 | ±20%   |                           |                   |
|                        |   |                                 |             |                         | N=0.0(nH)<br>R=0.0(μH) |     |                   |        |                           |                   |

### ● 外形尺寸 SHAPE AND DIMENSIONS

unit: mm(inch)



| Part No .        | L                         | W                         | T                         | D                          |
|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| 060303<br>(0201) | 0.6±0.03<br>(0.024±0.001) | 0.3±0.03<br>(0.012±0.001) | 0.3±0.03<br>(0.012±0.001) | 0.15±0.05<br>(0.006±0.002) |
| 100505<br>(0402) | 1.0±0.15<br>(0.040±0.006) | 0.5±0.15<br>(0.020±0.006) | 0.5±0.15<br>(0.020±0.006) | 0.25±0.10<br>(0.010±0.004) |
| 160808<br>(0603) | 1.6±0.2<br>(0.063±0.008)  | 0.8±0.2<br>(0.031±0.008)  | 0.8±0.2<br>(0.031±0.008)  | 0.3±0.2<br>(0.01±0.008)    |
| 201209<br>(0805) | 2.0±0.2<br>(0.079±0.008)  | 1.2±0.2<br>(0.047±0.008)  | 0.9±0.2<br>(0.035±0.008)  | 0.5±0.3<br>(0.020±0.012)   |

• 電性能參數 ELECTRICAL CHARACTERISTICS

0603 TYPE

| 型號<br>Part No.   | 電感量<br>Inductance<br>(nH) | 品質因數<br>Q<br>(Min) | 測試頻率<br>Test Fre.<br>(MHz) | 品質因數 測試頻率<br>Q Frequency (MHz) |     |      |      |      | 自諧振頻率<br>SRF<br>(MHz)Min | 直流電阻<br>DC R<br>( $\Omega$ )Max | 額定電流<br>Ir(mA)<br>Max |
|------------------|---------------------------|--------------------|----------------------------|--------------------------------|-----|------|------|------|--------------------------|---------------------------------|-----------------------|
|                  |                           |                    |                            | 500                            | 800 | 1800 | 2000 | 2400 |                          |                                 |                       |
| VHF060303H0N6 -T | 0.6                       | 4                  | 100                        | 11                             | 15  | 28   | 34   | 39   | 10000                    | 0.10                            | 500                   |
| VHF060303H0N8 -T | 0.8                       | 4                  | 100                        | 10                             | 15  | 27   | 34   | 38   | 10000                    | 0.10                            | 500                   |
| VHF060303H1N0 -T | 1.0                       | 4                  | 100                        | 9                              | 13  | 24   | 30   | 34   | 10000                    | 0.11                            | 470                   |
| VHF060303H1N2 -T | 1.2                       | 4                  | 100                        | 9                              | 13  | 24   | 30   | 34   | 10000                    | 0.12                            | 450                   |
| VHF060303H1N5 -T | 1.5                       | 4                  | 100                        | 10                             | 14  | 24   | 30   | 34   | 10000                    | 0.13                            | 430                   |
| VHF060303H1N8 -T | 1.8                       | 4                  | 100                        | 10                             | 14  | 24   | 30   | 33   | 10000                    | 0.16                            | 390                   |
| VHF060303H2N0 -T | 2.0                       | 4                  | 100                        | 9                              | 13  | 23   | 29   | 32   | 10000                    | 0.17                            | 380                   |
| VHF060303H2N2 -T | 2.2                       | 4                  | 100                        | 9                              | 13  | 22   | 28   | 31   | 8800                     | 0.19                            | 360                   |
| VHF060303H2N4 -T | 2.4                       | 4                  | 100                        | 9                              | 13  | 22   | 29   | 32   | 8300                     | 0.20                            | 350                   |
| VHF060303H2N7 -T | 2.7                       | 4                  | 100                        | 10                             | 14  | 23   | 29   | 31   | 7700                     | 0.21                            | 340                   |
| VHF060303H3N0 -T | 3.0                       | 4                  | 100                        | 10                             | 14  | 24   | 31   | 33   | 7200                     | 0.22                            | 330                   |
| VHF060303H3N3 -T | 3.3                       | 4                  | 100                        | 10                             | 14  | 23   | 29   | 31   | 6700                     | 0.23                            | 320                   |
| VHF060303H3N6 -T | 3.6                       | 4                  | 100                        | 9                              | 13  | 21   | 27   | 29   | 6400                     | 0.25                            | 310                   |
| VHF060303H3N9 -T | 3.9                       | 4                  | 100                        | 10                             | 14  | 24   | 29   | 32   | 6000                     | 0.27                            | 300                   |
| VHF060303H4N3 -T | 4.3                       | 4                  | 100                        | 9                              | 13  | 22   | 27   | 29   | 5700                     | 0.30                            | 280                   |
| VHF060303H4N7 -T | 4.7                       | 4                  | 100                        | 10                             | 15  | 23   | 29   | 30   | 5300                     | 0.30                            | 280                   |
| VHF060303H5N1 -T | 5.1                       | 4                  | 100                        | 9                              | 13  | 20   | 26   | 27   | 5000                     | 0.33                            | 270                   |
| VHF060303H5N6 -T | 5.6                       | 4                  | 100                        | 11                             | 15  | 22   | 28   | 29   | 4600                     | 0.36                            | 260                   |
| VHF060303H6N2 -T | 6.2                       | 4                  | 100                        | 10                             | 13  | 20   | 25   | 26   | 4200                     | 0.38                            | 250                   |
| VHF060303H6N8 -T | 6.8                       | 4                  | 100                        | 10                             | 14  | 21   | 26   | 25   | 3900                     | 0.39                            | 250                   |
| VHF060303H7N5 -T | 7.5                       | 4                  | 100                        | 9                              | 13  | 20   | 26   | 26   | 3600                     | 0.41                            | 240                   |
| VHF060303H8N2 -T | 8.2                       | 4                  | 100                        | 10                             | 13  | 19   | 24   | 24   | 3400                     | 0.45                            | 230                   |
| VHF060303H9N1 -T | 9.1                       | 4                  | 100                        | 11                             | 12  | 17   | 22   | 22   | 3200                     | 0.48                            | 220                   |
| VHF060303H10N -T | 10                        | 4                  | 100                        | 10                             | 13  | 18   | 22   | 21   | 2900                     | 0.51                            | 220                   |
| VHF060303H12N -T | 12                        | 4                  | 100                        | 11                             | 14  | 19   | 23   | 20   | 2700                     | 0.68                            | 190                   |
| VHF060303H15N -T | 15                        | 4                  | 100                        | 10                             | 14  | 15   | 18   | 14   | 2300                     | 0.71                            | 180                   |
| VHF060303H18N -T | 18                        | 4                  | 100                        | 9                              | 15  | 12   | 13   | -    | 2100                     | 0.81                            | 170                   |
| VHF060303H22N -T | 22                        | 4                  | 100                        | 10                             | 15  | 10   | -    | -    | 1800                     | 1.00                            | 150                   |
| VHF060303H27N -T | 27                        | 4                  | 100                        | 10                             | 15  | -    | -    | -    | 1800                     | 1.35                            | 120                   |
| VHF060303H33N -T | 33                        | 4                  | 100                        | 10                             | 15  | -    | -    | -    | 1700                     | 1.47                            | 110                   |
| VHF060303H39N -T | 39                        | 4                  | 100                        | 10                             | 12  | -    | -    | -    | 1500                     | 1.72                            | 100                   |
| VHF060303H47N -T | 47                        | 4                  | 100                        | 10                             | 12  | -    | -    | -    | 1300                     | 1.90                            | 100                   |
| VHF060303H56N -T | 56                        | 4                  | 100                        | 10                             | 9   | -    | -    | -    | 1100                     | 2.27                            | 80                    |
| VHF060303H68N -T | 68                        | 4                  | 100                        | 10                             | 9   | -    | -    | -    | 1100                     | 2.66                            | 80                    |
| VHF060303H82N -T | 82                        | 4                  | 100                        | 10                             | 8   | -    | -    | -    | 1000                     | 3.37                            | 70                    |
| VHF060303HR10 -T | 100                       | 4                  | 100                        | 10                             | -   | -    | -    | -    | 900                      | 3.74                            | 60                    |
| VHF060303HR12 -T | 120                       | 4                  | 100                        | 9                              | -   | -    | -    | -    | 800                      | 4.00                            | 50                    |

# 叠層片式高頻電感 CHIP HIGH FREQUENCY INDUCTORS

## • 電性能參數 ELECTRICAL CHARACTERISTICS

0603 TYPE

| 型號<br>Part No.              | 電感量<br>Inductance<br>(nH) | 品質因數<br>Q<br>(Min) | 測試頻率<br>Test Fre.<br>(MHz) | 品質因數 測試頻率<br>Q Frequency (MHz) |     |      |      |      | 自諧振頻率<br>SRF<br>(MHz)Min | 直流電阻<br>DC R<br>( $\Omega$ )Max | 額定電流<br>I <sub>r</sub> (mA)<br>Max |
|-----------------------------|---------------------------|--------------------|----------------------------|--------------------------------|-----|------|------|------|--------------------------|---------------------------------|------------------------------------|
|                             |                           |                    |                            | 500                            | 800 | 1800 | 2000 | 2400 |                          |                                 |                                    |
| VHF060303HQ0N6 $\square$ -T | 0.6                       | 13                 | 500                        | 23                             | 31  | 54   | 56   | 65   | 10000                    | 0.06                            | 600                                |
| VHF060303HQ0N7 $\square$ -T | 0.7                       | 13                 | 500                        | 23                             | 31  | 54   | 56   | 65   | 10000                    | 0.06                            | 550                                |
| VHF060303HQ0N8 $\square$ -T | 0.8                       | 13                 | 500                        | 23                             | 31  | 54   | 56   | 65   | 10000                    | 0.07                            | 550                                |
| VHF060303HQ1N0 $\square$ -T | 1.0                       | 13                 | 500                        | 23                             | 31  | 54   | 56   | 65   | 10000                    | 0.08                            | 520                                |
| VHF060303HQ1N1 $\square$ -T | 1.1                       | 13                 | 500                        | 18                             | 25  | 45   | 46   | 55   | 10000                    | 0.11                            | 440                                |
| VHF060303HQ1N2 $\square$ -T | 1.2                       | 13                 | 500                        | 18                             | 24  | 43   | 43   | 52   | 10000                    | 0.12                            | 440                                |
| VHF060303HQ1N4 $\square$ -T | 1.4                       | 13                 | 500                        | 18                             | 23  | 39   | 40   | 47   | 10000                    | 0.12                            | 430                                |
| VHF060303HQ1N5 $\square$ -T | 1.5                       | 13                 | 500                        | 18                             | 23  | 39   | 40   | 46   | 10000                    | 0.12                            | 420                                |
| VHF060303HQ1N6 $\square$ -T | 1.6                       | 13                 | 500                        | 18                             | 23  | 39   | 40   | 46   | 10000                    | 0.13                            | 410                                |
| VHF060303HQ1N8 $\square$ -T | 1.8                       | 13                 | 500                        | 18                             | 23  | 39   | 40   | 46   | 10000                    | 0.15                            | 380                                |
| VHF060303HQ2N0 $\square$ -T | 2.0                       | 13                 | 500                        | 16                             | 23  | 38   | 38   | 44   | 10000                    | 0.20                            | 360                                |
| VHF060303HQ2N2 $\square$ -T | 2.2                       | 13                 | 500                        | 16                             | 23  | 38   | 39   | 43   | 10000                    | 0.20                            | 350                                |
| VHF060303HQ2N4 $\square$ -T | 2.4                       | 13                 | 500                        | 16                             | 22  | 36   | 37   | 42   | 10000                    | 0.22                            | 330                                |
| VHF060303HQ2N6 $\square$ -T | 2.6                       | 13                 | 500                        | 16                             | 21  | 34   | 34   | 39   | 9400                     | 0.22                            | 320                                |
| VHF060303HQ2N7 $\square$ -T | 2.7                       | 13                 | 500                        | 16                             | 21  | 34   | 34   | 39   | 9200                     | 0.23                            | 300                                |
| VHF060303HQ3N0 $\square$ -T | 3.0                       | 13                 | 500                        | 16                             | 21  | 34   | 34   | 39   | 5600                     | 0.26                            | 280                                |
| VHF060303HQ3N3 $\square$ -T | 3.3                       | 13                 | 500                        | 17                             | 22  | 34   | 35   | 40   | 8100                     | 0.30                            | 270                                |
| VHF060303HQ3N6 $\square$ -T | 3.6                       | 13                 | 500                        | 15                             | 22  | 33   | 34   | 39   | 7700                     | 0.38                            | 240                                |
| VHF060303HQ3N9 $\square$ -T | 3.9                       | 13                 | 500                        | 15                             | 21  | 33   | 34   | 38   | 7400                     | 0.42                            | 230                                |
| VHF060303HQ4N3 $\square$ -T | 4.3                       | 13                 | 500                        | 15                             | 20  | 32   | 33   | 37   | 6800                     | 0.44                            | 220                                |
| VHF060303HQ4N7 $\square$ -T | 4.7                       | 13                 | 500                        | 15                             | 21  | 33   | 34   | 38   | 6200                     | 0.45                            | 220                                |
| VHF060303HQ5N1 $\square$ -T | 5.1                       | 13                 | 500                        | 16                             | 21  | 34   | 35   | 38   | 5900                     | 0.46                            | 210                                |
| VHF060303HQ5N6 $\square$ -T | 5.6                       | 13                 | 500                        | 15                             | 20  | 33   | 33   | 37   | 5500                     | 0.46                            | 210                                |
| VHF060303HQ6N2 $\square$ -T | 6.2                       | 13                 | 500                        | 17                             | 22  | 34   | 34   | 37   | 5100                     | 0.48                            | 210                                |
| VHF060303HQ6N8 $\square$ -T | 6.8                       | 13                 | 500                        | 16                             | 21  | 32   | 32   | 35   | 4900                     | 0.50                            | 200                                |
| VHF060303HQ7N5 $\square$ -T | 7.5                       | 13                 | 500                        | 15                             | 20  | 31   | 32   | 34   | 4700                     | 0.50                            | 200                                |
| VHF060303HQ8N2 $\square$ -T | 8.2                       | 13                 | 500                        | 15                             | 20  | 31   | 31   | 34   | 4300                     | 0.56                            | 190                                |
| VHF060303HQ9N1 $\square$ -T | 9.1                       | 13                 | 500                        | 15                             | 19  | 30   | 30   | 32   | 4100                     | 0.72                            | 170                                |
| VHF060303HQ10N $\square$ -T | 10                        | 13                 | 500                        | 15                             | 19  | 28   | 28   | 31   | 3800                     | 0.80                            | 160                                |
| VHF060303HQ12N $\square$ -T | 12                        | 13                 | 500                        | 15                             | 19  | 27   | 27   | 28   | 3400                     | 0.80                            | 160                                |
| VHF060303HQ15N $\square$ -T | 15                        | 13                 | 500                        | 14                             | 18  | 24   | 23   | 23   | 2600                     | 0.85                            | 160                                |
| VHF060303HQ18N $\square$ -T | 18                        | 13                 | 500                        | 14                             | 18  | 23   | 23   | 22   | 2300                     | 1.00                            | 140                                |
| VHF060303HQ22N $\square$ -T | 22                        | 13                 | 500                        | 14                             | 18  | 22   | 22   | 20   | 1900                     | 1.20                            | 130                                |
| VHF060303HQ27N $\square$ -T | 27                        | 13                 | 500                        | 14                             | 18  | 15   | 12   | 8    | 1800                     | 1.60                            | 120                                |
| VHF060303HQ33N $\square$ -T | 33                        | 13                 | 300                        | 13                             | 14  | 8    | 4    | -    | 1800                     | 2.20                            | 110                                |
| VHF060303HQ39N $\square$ -T | 39                        | 11                 | 300                        | 13                             | 14  | 6    | -    | -    | 1600                     | 2.30                            | 100                                |
| VHF060303HQ47N $\square$ -T | 47                        | 11                 | 300                        | 13                             | 14  | -    | -    | -    | 1500                     | 2.60                            | 100                                |
| VHF060303HQ56N $\square$ -T | 56                        | 11                 | 300                        | 12                             | 12  | -    | -    | -    | 1400                     | 2.80                            | 80                                 |
| VHF060303HQ68N $\square$ -T | 68                        | 11                 | 300                        | 12                             | 10  | -    | -    | -    | 1200                     | 3.20                            | 80                                 |
| VHF060303HQ82N $\square$ -T | 82                        | 10                 | 300                        | 11                             | 9   | -    | -    | -    | 1100                     | 3.80                            | 70                                 |
| VHF060303HQR10 $\square$ -T | 100                       | 10                 | 300                        | 11                             | 9   | -    | -    | -    | 1000                     | 4.00                            | 60                                 |
| VHF060303HQR12 $\square$ -T | 120                       | 9                  | 300                        | 11                             | 7   | -    | -    | -    | 1000                     | 5.00                            | 50                                 |

## • 電性能參數 ELECTRICAL CHARACTERISTICS

1005TYPE

| 型號<br>Part No.   | 電感量<br>Inductance<br>(nH) | 品質因數<br>Q<br>(Min) | 測試頻率<br>Test Fre.<br>(MHz) | 品質因數 測試頻率<br>Q Frequency (MHz) |     |     |     |      | 自諧振頻率<br>SRF<br>(MHz)Min | 直流電阻<br>DC R<br>( $\Omega$ )Max | 額定電流<br>I <sub>r</sub> (mA)<br>Max |
|------------------|---------------------------|--------------------|----------------------------|--------------------------------|-----|-----|-----|------|--------------------------|---------------------------------|------------------------------------|
|                  |                           |                    |                            | 100                            | 300 | 500 | 800 | 1000 |                          |                                 |                                    |
| VHF100505H1N0□ T | 1.0                       | 8                  | 100                        | 11                             | 19  | 18  | 34  | 36   | 10000                    | 0.1                             | 400                                |
| VHF100505H1N1□ T | 1.1                       | 8                  | 100                        | 11                             | 19  | 18  | 34  | 36   | 10000                    | 0.1                             | 400                                |
| VHF100505H1N2□ T | 1.2                       | 8                  | 100                        | 11                             | 19  | 18  | 34  | 36   | 10000                    | 0.1                             | 400                                |
| VHF100505H1N3□ T | 1.3                       | 8                  | 100                        | 11                             | 19  | 18  | 34  | 36   | 10000                    | 0.1                             | 400                                |
| VHF100505H1N5□ T | 1.5                       | 8                  | 100                        | 11                             | 19  | 18  | 34  | 36   | 6000                     | 0.1                             | 300                                |
| VHF100505H1N6□ T | 1.6                       | 8                  | 100                        | 11                             | 19  | 18  | 32  | 35   | 6000                     | 0.1                             | 300                                |
| VHF100505H1N8□ T | 1.8                       | 8                  | 100                        | 11                             | 19  | 18  | 30  | 34   | 6000                     | 0.1                             | 300                                |
| VHF100505H2N0□ T | 2.0                       | 8                  | 100                        | 10                             | 18  | 17  | 29  | 33   | 6000                     | 0.2                             | 300                                |
| VHF100505H2N2□ T | 2.2                       | 8                  | 100                        | 10                             | 18  | 17  | 29  | 33   | 6000                     | 0.2                             | 300                                |
| VHF100505H2N4□ T | 2.4                       | 8                  | 100                        | 10                             | 18  | 17  | 29  | 32   | 6000                     | 0.2                             | 300                                |
| VHF100505H2N7□ T | 2.7                       | 8                  | 100                        | 10                             | 18  | 17  | 29  | 32   | 6000                     | 0.2                             | 300                                |
| VHF100505H3N0□ T | 3.0                       | 8                  | 100                        | 10                             | 18  | 17  | 29  | 32   | 6000                     | 0.2                             | 300                                |
| VHF100505H3N3□ T | 3.3                       | 8                  | 100                        | 10                             | 18  | 17  | 29  | 32   | 6000                     | 0.2                             | 300                                |
| VHF100505H3N6□ T | 3.6                       | 8                  | 100                        | 10                             | 18  | 17  | 28  | 31   | 4000                     | 0.2                             | 300                                |
| VHF100505H3N9□ T | 3.9                       | 8                  | 100                        | 10                             | 18  | 17  | 28  | 31   | 4000                     | 0.2                             | 300                                |
| VHF100505H4N3□ T | 4.3                       | 8                  | 100                        | 10                             | 18  | 17  | 28  | 31   | 4000                     | 0.2                             | 300                                |
| VHF100505H4N7□ T | 4.7                       | 8                  | 100                        | 10                             | 18  | 17  | 28  | 31   | 4000                     | 0.2                             | 300                                |
| VHF100505H5N1□ T | 5.1                       | 8                  | 100                        | 10                             | 18  | 17  | 28  | 30   | 4000                     | 0.3                             | 300                                |
| VHF100505H5N6□ T | 5.6                       | 8                  | 100                        | 10                             | 18  | 17  | 28  | 30   | 4000                     | 0.3                             | 300                                |
| VHF100505H6N2□ T | 6.2                       | 8                  | 100                        | 10                             | 18  | 17  | 27  | 30   | 3900                     | 0.3                             | 300                                |
| VHF100505H6N8□ T | 6.8                       | 8                  | 100                        | 10                             | 18  | 17  | 27  | 30   | 3900                     | 0.3                             | 300                                |
| VHF100505H7N5□ T | 7.5                       | 8                  | 100                        | 10                             | 18  | 17  | 27  | 30   | 3700                     | 0.4                             | 300                                |
| VHF100505H8N2□ T | 8.2                       | 8                  | 100                        | 10                             | 18  | 17  | 27  | 30   | 3600                     | 0.4                             | 300                                |
| VHF100505H9N1□ T | 9.1                       | 8                  | 100                        | 10                             | 18  | 17  | 27  | 30   | 3400                     | 0.4                             | 300                                |
| VHF100505H10N□ T | 10                        | 8                  | 100                        | 10                             | 18  | 17  | 27  | 30   | 3200                     | 0.4                             | 300                                |
| VHF100505H12N□ T | 12                        | 8                  | 100                        | 10                             | 18  | 17  | 26  | 29   | 2700                     | 0.5                             | 300                                |
| VHF100505H15N□ T | 15                        | 8                  | 100                        | 10                             | 18  | 17  | 26  | 28   | 2300                     | 0.5                             | 300                                |
| VHF100505H18N□ T | 18                        | 8                  | 100                        | 10                             | 18  | 17  | 25  | 27   | 2100                     | 0.6                             | 300                                |
| VHF100505H20N□ T | 20                        | 8                  | 100                        | 10                             | 18  | 17  | 25  | 26   | 2000                     | 0.6                             | 300                                |
| VHF100505H22N□ T | 22                        | 8                  | 100                        | 10                             | 18  | 17  | 25  | 25   | 1900                     | 0.6                             | 300                                |
| VHF100505H27N□ T | 27                        | 8                  | 100                        | 10                             | 18  | 17  | 25  | 23   | 1600                     | 0.7                             | 300                                |
| VHF100505H33N□ T | 33                        | 8                  | 100                        | 10                             | 18  | 17  | 22  | 22   | 1300                     | 0.8                             | 200                                |
| VHF100505H39N□ T | 39                        | 8                  | 100                        | 10                             | 18  | 17  | 22  | 19   | 1200                     | 1.0                             | 200                                |
| VHF100505H43N□ T | 43                        | 8                  | 100                        | 10                             | 18  | 17  | 21  | 16   | 1100                     | 1.1                             | 200                                |
| VHF100505H47N□ T | 47                        | 8                  | 100                        | 10                             | 18  | 17  | 21  | 16   | 1000                     | 1.1                             | 200                                |
| VHF100505H56N□ T | 56                        | 8                  | 100                        | 10                             | 18  | 17  | 18  | 13   | 750                      | 1.2                             | 200                                |
| VHF100505H68N□ T | 68                        | 8                  | 100                        | 10                             | 18  | 17  | 18  | 9    | 750                      | 1.4                             | 180                                |
| VHF100505H82N□ T | 82                        | 8                  | 100                        | 10                             | 18  | 17  | 13  | -    | 750                      | 2.4                             | 150                                |
| VHF100505HR10□ T | 100                       | 8                  | 100                        | 10                             | 18  | 17  | 12  | -    | 700                      | 2.6                             | 150                                |
| VHF100505HR12□ T | 120                       | 8                  | 100                        | 10                             | 18  | 17  | -   | -    | 600                      | 2.8                             | 150                                |
| VHF100505HR15□ T | 150                       | 8                  | 100                        | 10                             | 18  | 17  | -   | -    | 550                      | 3.2                             | 100                                |
| VHF100505HR18□ T | 180                       | 8                  | 100                        | 10                             | 18  | -   | -   | -    | 500                      | 3.7                             | 100                                |
| VHF100505HR22□ T | 220                       | 8                  | 100                        | 12                             | 20  | -   | -   | -    | 450                      | 4.0                             | 100                                |
| VHF100505HR27□ T | 270                       | 8                  | 100                        | 12                             | 20  | -   | -   | -    | 400                      | 4.5                             | 100                                |
| VHF100505HR30□ T | 300                       | 6                  | 50                         | 12                             | 20  | -   | -   | -    | 350                      | 7.0                             | 50                                 |
| VHF100505HR33□ T | 330                       | 6                  | 50                         | 8                              | 16  | -   | -   | -    | 350                      | 7.0                             | 50                                 |
| VHF100505HR36□ T | 360                       | 6                  | 50                         | 8                              | -   | -   | -   | -    | 300                      | 7.5                             | 50                                 |

# 叠層片式高频电感 CHIP HIGH FREQUENCY INDUCTORS

## • 電性能參數 ELECTRICAL CHARACTERISTICS

### 1608TYPE

| 型號<br>Part No.  | 電感量<br>Inductance<br>(nH) | 品質因數<br>Q<br>(Min) | 測試頻率<br>Test Fre.<br>(MHz) | 品質因數 測試頻率<br>Q Frequency (Mhz) |     |     |     |      | 自諧振頻率<br>SRF<br>(MHz)Min | 直流電阻<br>DC R<br>( $\Omega$ )Max | 額定電流<br>I <sub>r</sub> (mA)<br>Max |
|-----------------|---------------------------|--------------------|----------------------------|--------------------------------|-----|-----|-----|------|--------------------------|---------------------------------|------------------------------------|
|                 |                           |                    |                            | 100                            | 300 | 500 | 800 | 1000 |                          |                                 |                                    |
| VHF160808H1N0S  | 1.0                       | 8                  | 100                        | 14                             | 20  | 30  | 35  | 50   | 10000                    | 0.05                            | 500                                |
| VHF160808H1N2S  | 1.2                       | 8                  | 100                        | 14                             | 20  | 30  | 35  | 50   | 10000                    | 0.10                            | 500                                |
| VHF160808H1N5S  | 1.5                       | 8                  | 100                        | 14                             | 22  | 37  | 38  | 68   | 10000                    | 0.10                            | 400                                |
| VHF160808H1N8S  | 1.8                       | 8                  | 100                        | 14                             | 21  | 33  | 35  | 61   | 9800                     | 0.12                            | 400                                |
| VHF160808H2N2S  | 2.2                       | 8                  | 100                        | 14                             | 26  | 40  | 39  | 60   | 7600                     | 0.20                            | 400                                |
| VHF160808H2N7S  | 2.7                       | 8                  | 100                        | 12                             | 23  | 27  | 37  | 47   | 7000                     | 0.20                            | 400                                |
| VHF160808H3N3S  | 3.3                       | 8                  | 100                        | 12                             | 23  | 27  | 36  | 47   | 6200                     | 0.20                            | 400                                |
| VHF160808H3N9S  | 3.9                       | 8                  | 100                        | 12                             | 25  | 28  | 38  | 47   | 5600                     | 0.25                            | 400                                |
| VHF160808H4N7S  | 4.7                       | 8                  | 100                        | 12                             | 26  | 30  | 38  | 49   | 4800                     | 0.30                            | 400                                |
| VHF160808H5N6S  | 5.6                       | 8                  | 100                        | 12                             | 26  | 29  | 35  | 34   | 4600                     | 0.30                            | 400                                |
| VHF160808H6N8S  | 6.8                       | 8                  | 100                        | 12                             | 23  | 27  | 35  | 40   | 4200                     | 0.35                            | 400                                |
| VHF160808H8N2J  | 8.2                       | 8                  | 100                        | 12                             | 22  | 26  | 33  | 39   | 3600                     | 0.35                            | 400                                |
| VHF160808H10NJ  | 10                        | 8                  | 100                        | 13                             | 25  | 31  | 38  | 45   | 3200                     | 0.40                            | 300                                |
| VHF160808H12NJ  | 12                        | 8                  | 100                        | 13                             | 24  | 28  | 35  | 39   | 2800                     | 0.40                            | 300                                |
| VHF160808H15NJ  | 15                        | 8                  | 100                        | 13                             | 22  | 27  | 34  | 40   | 2600                     | 0.45                            | 300                                |
| VHF160808H18NJ  | 18                        | 8                  | 100                        | 13                             | 24  | 28  | 35  | 38   | 2400                     | 0.60                            | 300                                |
| VHF160808H22NJ  | 22                        | 8                  | 100                        | 15                             | 27  | 32  | 38  | 43   | 2000                     | 0.60                            | 300                                |
| VHF160808H27NJ  | 27                        | 8                  | 100                        | 14                             | 26  | 29  | 36  | 44   | 1900                     | 0.80                            | 300                                |
| VHF160808H33NJ  | 33                        | 8                  | 100                        | 14                             | 26  | 29  | 35  | 34   | 1600                     | 0.80                            | 300                                |
| VHF160808H39NJ  | 39                        | 8                  | 100                        | 14                             | 22  | 25  | 28  | 28   | 1400                     | 1.00                            | 300                                |
| VHF160808H47NJ  | 47                        | 8                  | 100                        | 15                             | 25  | 29  | 30  | 25   | 1200                     | 1.00                            | 200                                |
| VHF160808H56NJ  | 56                        | 8                  | 100                        | 17                             | 28  | 31  | 31  | 25   | 1000                     | 1.00                            | 200                                |
| VHF160808H68NJ  | 68                        | 8                  | 100                        | 17                             | 22  | 24  | 25  | 15   | 900                      | 1.00                            | 200                                |
| VHF160808H82NJ  | 82                        | 8                  | 100                        | 17                             | 23  | 24  | 22  | 13   | 800                      | 1.00                            | 200                                |
| VHF160808HR10J  | 100                       | 8                  | 100                        | 17                             | 25  | 27  | 24  | 17   | 700                      | 1.40                            | 200                                |
| VHF160808HR12J  | 120                       | 8                  | 100                        | 15                             | 24  | 23  |     |      | 600                      | 1.60                            | 150                                |
| VHF160808HR15J  | 150                       | 8                  | 100                        | 13                             | 19  |     |     |      | 500                      | 1.80                            | 150                                |
| VHF160808HR18JT | 180                       | 8                  | 100                        | 13                             | 19  |     |     |      | 500                      | 1.80                            | 150                                |
| VHF160808HR22JT | 220                       | 8                  | 50                         | 15                             |     |     |     |      | 350                      | 2.40                            | 200                                |
| VHF160808HR27JT | 270                       | 8                  | 50                         | 16                             |     |     |     |      | 350                      | 2.60                            | 150                                |
| VHF160808HR33JT | 330                       | 8                  | 50                         | 16                             |     |     |     |      | 350                      | 2.80                            | 150                                |

## 電性能參數 ELECTRICAL CHARACTERISTICS

### 2012TYPE

| 型號<br>Part No. | 電感量<br>Inductance<br>(nH) | 品質因數<br>Q<br>(Min) | 測試頻率<br>Test Fre.<br>(MHz) | 品質因數 測試頻率<br>Q Frequency (MHz) |     |     |     |      | 自諧振頻率<br>SRF<br>(MHz)Min | 直流電阻<br>DC R<br>( $\Omega$ )Max | 額定電流<br>Ir(mA)<br>Max |
|----------------|---------------------------|--------------------|----------------------------|--------------------------------|-----|-----|-----|------|--------------------------|---------------------------------|-----------------------|
|                |                           |                    |                            | 100                            | 300 | 500 | 800 | 1000 |                          |                                 |                       |
| VHF201209H1N5S | 1.5                       | 8                  | 100                        | 10                             | 23  | 46  | 54  | 85   | 6000                     | 0.10                            | 600                   |
| VHF201209H1N8S | 1.8                       | 8                  | 100                        | 13                             | 24  | 46  | 55  | 85   | 6000                     | 0.10                            | 600                   |
| VHF201209H2N2S | 2.2                       | 8                  | 100                        | 13                             | 25  | 46  | 53  | 85   | 6000                     | 0.10                            | 600                   |
| VHF201209H2N7S | 2.7                       | 8                  | 100                        | 13                             | 25  | 42  | 45  | 76   | 6000                     | 0.10                            | 600                   |
| VHF201209H3N3S | 3.3                       | 8                  | 100                        | 15                             | 28  | 48  | 52  | 85   | 6000                     | 0.13                            | 600                   |
| VHF201209H3N9S | 3.9                       | 8                  | 100                        | 15                             | 28  | 49  | 55  | 85   | 5400                     | 0.15                            | 600                   |
| VHF201209H4N7S | 4.7                       | 8                  | 100                        | 15                             | 28  | 48  | 53  | 85   | 4500                     | 0.20                            | 400                   |
| VHF201209H5N6S | 5.6                       | 8                  | 100                        | 16                             | 30  | 44  | 45  | 78   | 4000                     | 0.23                            | 400                   |
| VHF201209H6N8S | 6.8                       | 8                  | 100                        | 16                             | 30  | 40  | 45  | 69   | 3650                     | 0.25                            | 400                   |
| VHF201209H8N2J | 8.2                       | 8                  | 100                        | 16                             | 28  | 42  | 45  | 69   | 3000                     | 0.28                            | 400                   |
| VHF201209H10NJ | 10                        | 8                  | 100                        | 16                             | 28  | 43  | 45  | 71   | 2500                     | 0.30                            | 300                   |
| VHF201209H12NJ | 12                        | 8                  | 100                        | 16                             | 28  | 43  | 45  | 50   | 2450                     | 0.35                            | 300                   |
| VHF201209H15NJ | 15                        | 8                  | 100                        | 18                             | 30  | 43  | 43  | 56   | 2000                     | 0.40                            | 300                   |
| VHF201209H18NJ | 18                        | 8                  | 100                        | 18                             | 26  | 40  | 42  | 59   | 1750                     | 0.45                            | 300                   |
| VHF201209H22NJ | 22                        | 8                  | 100                        | 17                             | 31  | 45  | 45  | 59   | 1700                     | 0.50                            | 300                   |
| VHF201209H27NJ | 27                        | 8                  | 100                        | 17                             | 31  | 45  | 45  | 54   | 1550                     | 0.55                            | 300                   |
| VHF201209H33NJ | 33                        | 8                  | 100                        | 18                             | 27  | 41  | 40  | 44   | 1350                     | 0.60                            | 300                   |
| VHF201209H39NJ | 39                        | 8                  | 100                        | 19                             | 31  | 42  | 31  | 20   | 1300                     | 0.70                            | 300                   |
| VHF201209H47NJ | 47                        | 8                  | 100                        | 20                             | 24  | 33  | 31  | 29   | 1200                     | 0.80                            | 300                   |
| VHF201209H56NJ | 56                        | 8                  | 100                        | 21                             | 34  | 43  | 35  | 25   | 1150                     | 0.80                            | 300                   |
| VHF201209H68NJ | 68                        | 8                  | 100                        | 19                             | 28  | 37  | 29  |      | 1000                     | 0.85                            | 300                   |
| VHF201209H82NJ | 82                        | 8                  | 100                        | 19                             | 29  | 30  | 27  |      | 850                      | 0.90                            | 300                   |
| VHF201209HR10J | 100                       | 8                  | 100                        | 13                             | 27  | 36  |     |      | 600                      | 1.00                            | 300                   |
| VHF201209HR12J | 120                       | 8                  | 100                        | 19                             | 27  |     |     |      | 500                      | 1.20                            | 300                   |
| VHF201209HR15K | 150                       | 8                  | 100                        | 19                             | 27  |     |     |      | 500                      | 1.50                            | 300                   |
| VHF201209HR18K | 180                       | 8                  | 100                        | 19                             | 25  |     |     |      | 400                      | 1.80                            | 300                   |
| VHF201209HR22K | 220                       | 8                  | 100                        | 19                             | 22  |     |     |      | 350                      | 1.80                            | 300                   |

特性曲线 CHARACTERISTICS CURVES

■ 电感量频率特性 Inductance VS. Frequency



■ Q值频率特性 Q Value VS. Frequency



■ 阻抗频率特性 Impedance VS. Frequency



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