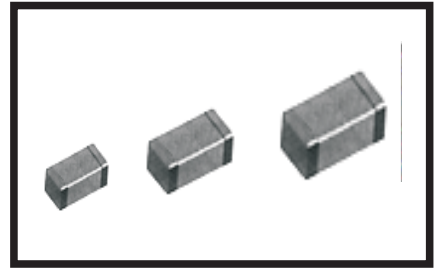


疊層片式高頻電感 CHIP HIGH FREQUENCY INDUCTORS

疊層片式高頻電感 CHIP HIGH FREQUENCY INDUCTORS

| | | |
|-----------------|------|-----------|
| OPERATING TEMP. | 1005 | -55~125°C |
| | 1608 | -40~+85°C |
| | 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

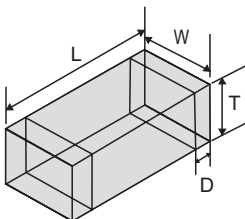
• 產品規格型號的表示方法 ORDERING CODE

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

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

• 外形尺寸 SHAPE AND DIMENSIONS

unit: mm(inch)



| Part No. | L | W | T | D |
|----------|---------------------------|---------------------------|---------------------------|----------------------------|
| 100505 | 1.0±0.15 (0.040±0.006) | 0.5±0.15 (0.020±0.006) | 0.5±0.15 (0.020±0.006) | 0.25±0.10 (0.010±0.004) |
| 160808 | 1.6±0.2 (0.063±0.008) | 0.8±0.2 (0.031±0.008) | 0.8±0.2 (0.031±0.008) | 0.3±0.2 (0.01±0.008) |
| 201209 | 2.0±0.2 (0.079±0.008) | 1.2±0.2 (0.047±0.008) | 0.9±0.2 (0.035±0.008) | 0.5±0.3 (0.020±0.012) |

• 電性能參數 ELECTRICAL CHARACTERISTICS

1005TYPE

| Part No. | Inductance (nH) | Q (Min) | Test Fre. (MHz) | Q Frequency (MHz) | | | | | SRF (MHz)Min | DC R (Ω)Max | Ir(mA) Max |
|----------------|-----------------|---------|-----------------|-------------------|-----|-----|-----|------|--------------|----------------------|------------|
| | | | | 100 | 300 | 500 | 800 | 1000 | | | |
| VHF100505H1N0S | 1.0 | 7 | 100 | 8 | 20 | 26 | 34 | 38 | 6000 | 0.17 | 300 |
| VHF100505H1N2S | 1.2 | 7 | 100 | 8 | 20 | 26 | 34 | 38 | 6000 | 0.17 | 300 |
| VHF100505H1N5S | 1.5 | 7 | 100 | 8 | 20 | 26 | 34 | 38 | 6000 | 0.18 | 300 |
| VHF100505H1N8S | 1.8 | 7 | 100 | 8 | 18 | 24 | 30 | 35 | 6000 | 0.19 | 300 |
| VHF100505H2N2S | 2.2 | 7 | 100 | 8 | 17 | 24 | 29 | 35 | 6000 | 0.21 | 300 |
| VHF100505H2N7S | 2.7 | 7 | 100 | 8 | 17 | 23 | 29 | 34 | 5500 | 0.22 | 300 |
| VHF100505H3N3S | 3.3 | 7 | 100 | 8 | 17 | 23 | 28 | 34 | 5500 | 0.25 | 300 |
| VHF100505H3N9S | 3.9 | 7 | 100 | 8 | 17 | 23 | 28 | 33 | 5200 | 0.25 | 300 |
| VHF100505H4N7S | 4.7 | 7 | 100 | 8 | 17 | 23 | 28 | 33 | 4800 | 0.30 | 300 |
| VHF100505H5N6S | 5.6 | 7 | 100 | 8 | 17 | 22 | 28 | 33 | 4600 | 0.30 | 300 |
| VHF100505H6N8J | 6.8 | 7 | 100 | 8 | 17 | 22 | 27 | 33 | 4000 | 0.37 | 250 |
| VHF100505H8N2J | 8.2 | 7 | 100 | 10 | 16 | 22 | 28 | 32 | 3600 | 0.45 | 250 |
| VHF100505H10NJ | 10 | 7 | 100 | 10 | 17 | 22 | 30 | 32 | 3200 | 0.47 | 250 |
| VHF100505H12NJ | 12 | 8 | 100 | 11 | 17 | 24 | 31 | 34 | 2800 | 0.55 | 250 |
| VHF100505H15NJ | 15 | 8 | 100 | 11 | 18 | 24 | 30 | 33 | 2500 | 0.70 | 250 |
| VHF100505H18NJ | 18 | 8 | 100 | 11 | 18 | 24 | 30 | 32 | 2200 | 0.70 | 200 |
| VHF100505H22NJ | 22 | 8 | 100 | 11 | 18 | 24 | 30 | 31 | 2000 | 0.90 | 200 |
| VHF100505H27NJ | 27 | 8 | 100 | 11 | 18 | 23 | 27 | 29 | 1600 | 1.00 | 200 |
| VHF100505H33NJ | 33 | 8 | 100 | 11 | 18 | 22 | 25 | 25 | 1300 | 1.10 | 200 |
| VHF100505H39NJ | 39 | 8 | 100 | 11 | 18 | 22 | 24 | 23 | 1200 | 1.30 | 150 |
| VHF100505H47NJ | 47 | 8 | 100 | 11 | 18 | 21 | 23 | 21 | 1000 | 1.40 | 150 |

1608TYPE

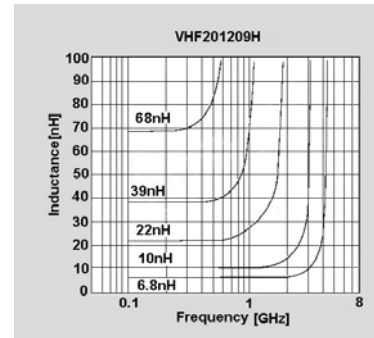
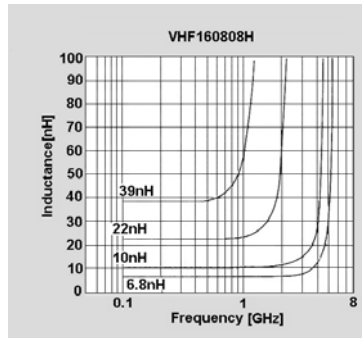
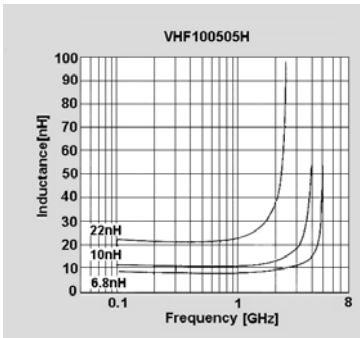
| Part No. | Inductance (nH) | Q (Min) | Test Fre. (MHz) | Q Frequency (MHz) | | | | | SRF (MHz)Min | DC R (Ω)Max | Ir(mA) Max |
|----------------|-----------------|---------|-----------------|-------------------|-----|-----|-----|------|--------------|----------------------|------------|
| | | | | 100 | 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 |

2012TYPE

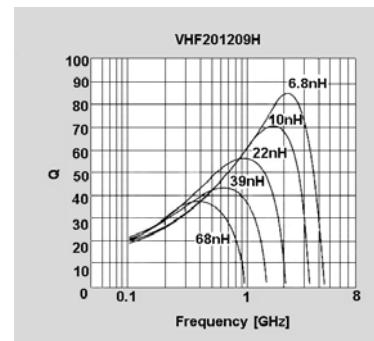
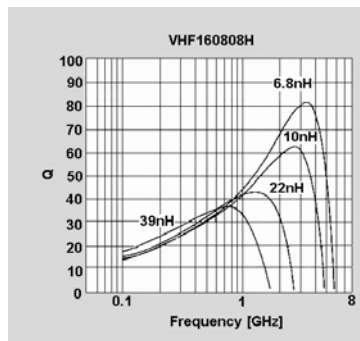
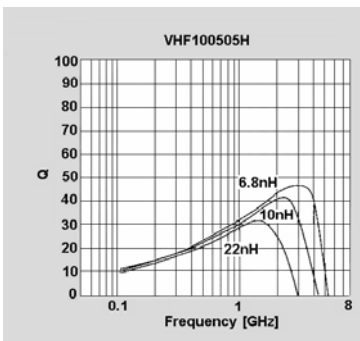
| Part No. | Inductance (nH) | Q (Min) | Test Fre. (MHz) | Q Frequency (MHz) | | | | | SRF (MHz)Min | DC R (Ω)Max | I _r (mA) Max |
|----------------|--------------------|------------|--------------------|-------------------|-----|-----|-----|------|-----------------|-------------------------|----------------------------|
| | | | | 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 |

特性曲綫 CHARACTERISTICS CURVES

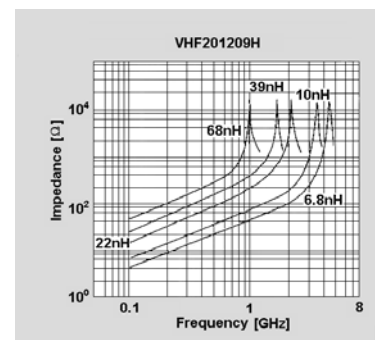
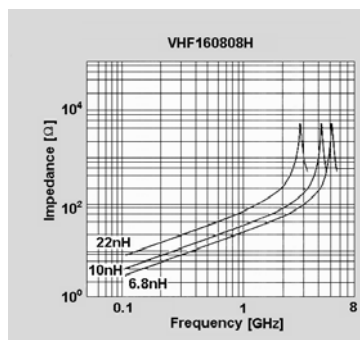
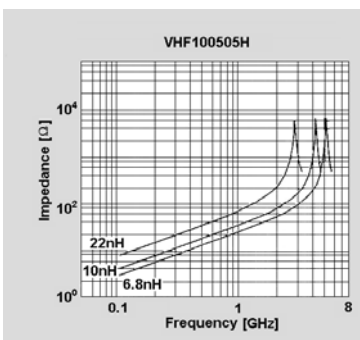
■ 電感量頻率特性 Inductance VS. Frequency



■ Q值頻率特性 Q Value VS. Frequency



■ 阻抗頻率特性 Impedance VS. Frequency



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