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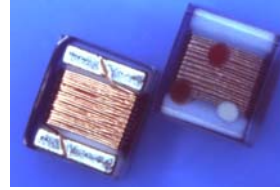
## HEC1008-Series

### High Frequency SMD Inductor for Signal Line

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#### FEATURES

- Can be used for high frequency bands up to GHz and stable inductance at high frequency.
- The high self resonant frequency realizes high Q value
- Resin-coated surface enables excellent mounting
- Low DC resistance design is ideal for low loss, high output and low power consumption.



#### APPLICATIONS

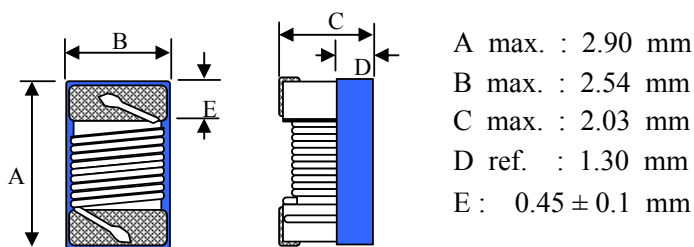
- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN

#### PRODUCT IDENTIFICATION

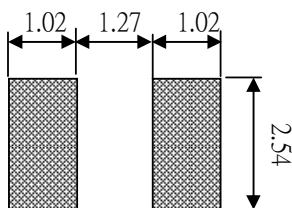
##### HEC 1008 - 10N J - T

- |                                 |                              |
|---------------------------------|------------------------------|
| (1) Product name                | (4) Tolerance                |
| (2) Shapes and Dimensions (LxW) | G : ±2% ; J : ±5% ; K : ±10% |
| (3) Inductance                  | (6) Taping style             |
| 10N:10nH, 3N3:3.3nH             | T : Taping ; None : Bulk     |

#### SHAPES AND DIMENSIONS(Unit:mm)



#### RECOMMENDED FOOTPRINT(Unit:mm)



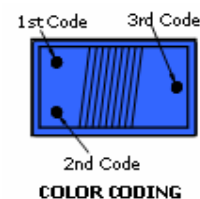
## HEC1008-Series

### High Frequency SMD Inductor for Signal Line

#### ELECTRICAL CHARACTERISTICS

| Our Product<br>Part Number | Inductance<br>(nH)/MHz | Inductance<br>Tolerance | Q/MHz<br>Min. | SRF(Min.)<br>(MHz) | RDC<br>( $\Omega$ )Max | Irms Max.<br>(mA) | Color Coding |        |        |
|----------------------------|------------------------|-------------------------|---------------|--------------------|------------------------|-------------------|--------------|--------|--------|
|                            |                        |                         |               |                    |                        |                   | 1st          | 2nd    | 3rd    |
| HEC1008-10N□-T             | 10/50                  | G,J,K                   | 50/500        | 4100               | 0.08                   | 1000              | Brown        | Black  | Black  |
| HEC1008-12N□-T             | 12/50                  | G,J,K                   | 50/500        | 3300               | 0.09                   | 1000              | Brown        | Red    | Black  |
| HEC1008-15N□-T             | 15/50                  | G,J,K                   | 50/500        | 2500               | 0.16                   | 1000              | Brown        | Green  | Black  |
| HEC1008-18N□-T             | 18/50                  | G,J,K                   | 50/350        | 2500               | 0.11                   | 1000              | Brown        | Gray   | Black  |
| HEC1008-22N□-T             | 22/50                  | G,J,K                   | 55/350        | 2400               | 0.12                   | 1000              | Red          | Red    | Black  |
| HEC1008-27N□-T             | 27/50                  | G,J,K                   | 50/350        | 1600               | 0.13                   | 1000              | Red          | Violet | Black  |
| HEC1008-33N□-T             | 33/50                  | G,J,K                   | 60/350        | 1600               | 0.14                   | 1000              | Orange       | Orange | Black  |
| HEC1008-39N□-T             | 39/50                  | G,J,K                   | 60/350        | 1500               | 0.15                   | 1000              | Orange       | White  | Black  |
| HEC1008-47N□-T             | 47/50                  | G,J,K                   | 65/350        | 1500               | 0.16                   | 1000              | Yellow       | Violet | Black  |
| HEC1008-56N□-T             | 56/50                  | G,J,K                   | 65/350        | 1300               | 0.18                   | 1000              | Green        | Blue   | Black  |
| HEC1008-68N□-T             | 68/50                  | G,J,K                   | 65/350        | 1300               | 0.20                   | 1000              | Blue         | Gray   | Black  |
| HEC1008-82N□-T             | 82/50                  | G,J,K                   | 60/350        | 1000               | 0.22                   | 1000              | Gray         | Red    | Black  |
| HEC1008-R10□-T             | 100/25                 | G,J,K                   | 60/350        | 1000               | 0.56                   | 650               | Brown        | Black  | Brown  |
| HEC1008-R12□-T             | 120/25                 | G,J,K                   | 60/350        | 950                | 0.63                   | 650               | Brown        | Red    | Brown  |
| HEC1008-R15□-T             | 150/25                 | G,J,K                   | 45/100        | 850                | 0.70                   | 580               | Brown        | Green  | Brown  |
| HEC1008-R18□-T             | 180/25                 | G,J,K                   | 45/100        | 750                | 0.77                   | 620               | Brown        | Gray   | Brown  |
| HEC1008-R22□-T             | 220/25                 | G,J,K                   | 45/100        | 700                | 0.84                   | 500               | Red          | Red    | Brown  |
| HEC1008-R27□-T             | 270/25                 | G,J,K                   | 45/100        | 600                | 0.91                   | 500               | Red          | Violet | Brown  |
| HEC1008-R33□-T             | 330/25                 | G,J,K                   | 45/100        | 570                | 1.05                   | 450               | Orange       | Orange | Brown  |
| HEC1008-R39□-T             | 390/25                 | G,J,K                   | 45/100        | 500                | 1.12                   | 470               | Orange       | White  | Brown  |
| HEC1008-R47□-T             | 470/25                 | G,J,K                   | 45/100        | 450                | 1.19                   | 470               | Yellow       | Violet | Brown  |
| HEC1008-R56□-T             | 560/25                 | G,J,K                   | 45/100        | 415                | 1.33                   | 400               | Green        | Blue   | Brown  |
| HEC1008-R62□-T             | 620/25                 | G,J,K                   | 45/100        | 375                | 1.40                   | 300               | Blue         | Red    | Brown  |
| HEC1008-R68□-T             | 680/25                 | G,J,K                   | 45/100        | 375                | 1.47                   | 400               | Blue         | Gray   | Brown  |
| HEC1008-R75□-T             | 750/25                 | G,J,K                   | 45/100        | 360                | 1.54                   | 360               | Violet       | Green  | Brown  |
| HEC1008-R82□-T             | 820/25                 | G,J,K                   | 45/100        | 350                | 1.61                   | 400               | Gray         | Red    | Brown  |
| HEC1008-R91□-T             | 910/25                 | G,J,K                   | 35/50         | 320                | 1.68                   | 380               | White        | Brown  | Brown  |
| HEC1008-1R0□-T             | 1000/25                | G,J,K                   | 35/50         | 290                | 1.75                   | 400               | Brown        | Black  | Red    |
| HEC1008-1R2□-T             | 1200/7.9               | G,J,K                   | 35/50         | 250                | 2.00                   | 310               | Brown        | Red    | Red    |
| HEC1008-1R5□-T             | 1500/7.9               | G,J,K                   | 28/50         | 200                | 2.30                   | 330               | Brown        | Green  | Red    |
| HEC1008-1R8□-T             | 1800/7.9               | G,J,K                   | 28/50         | 160                | 2.60                   | 300               | Brown        | Gray   | Red    |
| HEC1008-2R2□-T             | 2200/7.9               | G,J,K                   | 28/50         | 160                | 2.80                   | 280               | Red          | Red    | Red    |
| HEC1008-2R7□-T             | 2700/7.9               | G,J,K                   | 22/25         | 135                | 3.20                   | 290               | Red          | Violet | Red    |
| HEC1008-3R3□-T             | 3300/7.9               | G,J,K                   | 22/25         | 110                | 3.40                   | 290               | Orange       | Orange | Red    |
| HEC1008-3R9□-T             | 3900/7.9               | G,J,K                   | 20/25         | 100                | 3.60                   | 260               | Orange       | White  | Red    |
| HEC1008-4R7□-T             | 4700/7.9               | G,J,K                   | 20/25         | 90                 | 4.00                   | 260               | Yellow       | Violet | Red    |
| HEC1008-5R6□-T             | 5600/7.9               | G,J,K                   | 18/7.9        | 40                 | 4.20                   | 240               | Green        | Blue   | Red    |
| HEC1008-6R8□-T             | 6800/7.9               | G,J,K                   | 18/7.9        | 40                 | 4.90                   | 200               | Blue         | Gray   | Red    |
| HEC1008-8R2□-T             | 8200/7.9               | G,J,K                   | 18/7.9        | 25                 | 6.00                   | 170               | Gray         | Red    | Red    |
| HEC1008-100□-T             | 10000/2.5              | G,J,K                   | 18/7.9        | 25                 | 8.00                   | 150               | Brown        | Black  | Orange |

- When ordering, please specify tolerance and packaging codes. Ex: HEC1008-R12J-T  
Tolerance : G =  $\pm 2\%$  , J =  $\pm 5\%$  , K =  $\pm 10\%$   
Packaging : Clear tape and reel { standard } . \*
- L , Q 、 SRF : Agilent/HP E4991A+ Agilent/HP16197A  
(The electrical specification test by the smallest gap position) or HP16193A
- Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.
- Irms for a 15°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C.



\* Parts/Reel: 7" 2,000 Tape Width: 8mm

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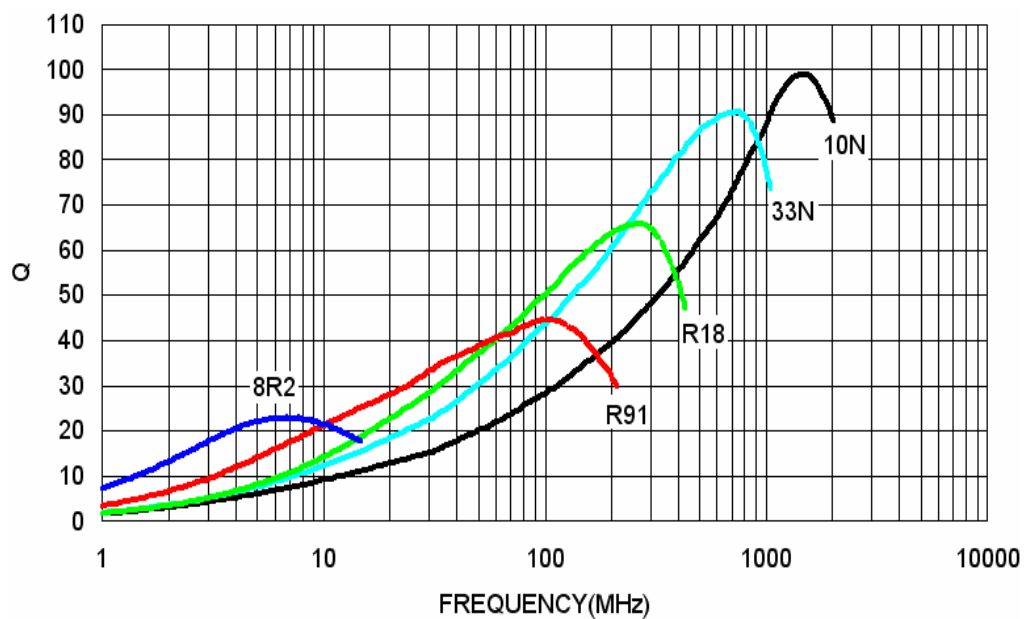
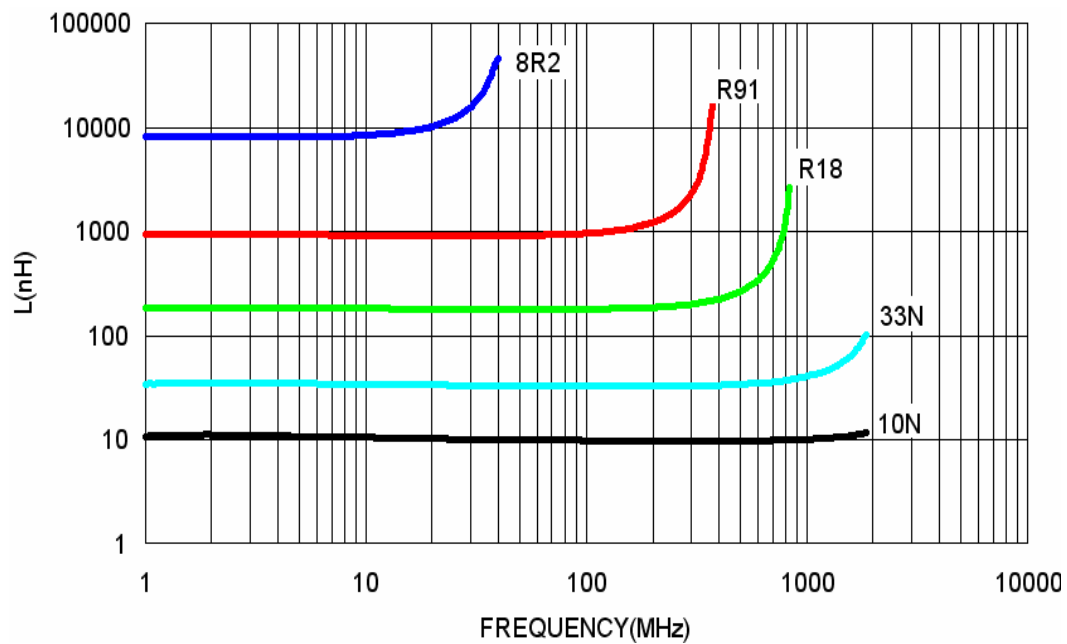
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#### ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



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