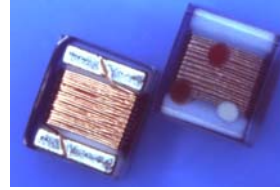

HEC1008-Series

High Frequency SMD Inductor for Signal Line

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

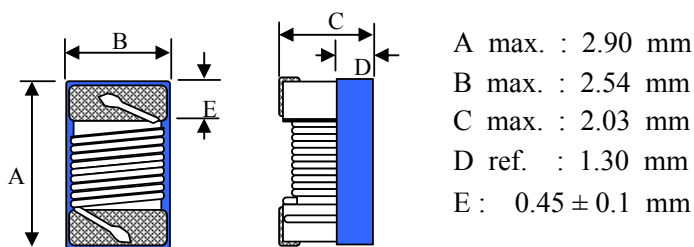
- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN

PRODUCT IDENTIFICATION

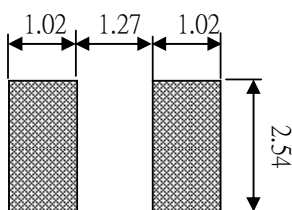
HEC 1008 - 10N J - T

- | | |
|---------------------------------|------------------------------|
| (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)



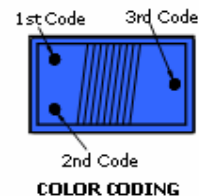
HEC1008-Series

High Frequency SMD Inductor for Signal Line

ELECTRICAL CHARACTERISTICS

| Our Product Part Number | Inductance (nH)/MHz | Inductance Tolerance | Q/MHz Min. | SRF(Min.) (MHz) | RDC (Ω)Max | Irms Max. (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.



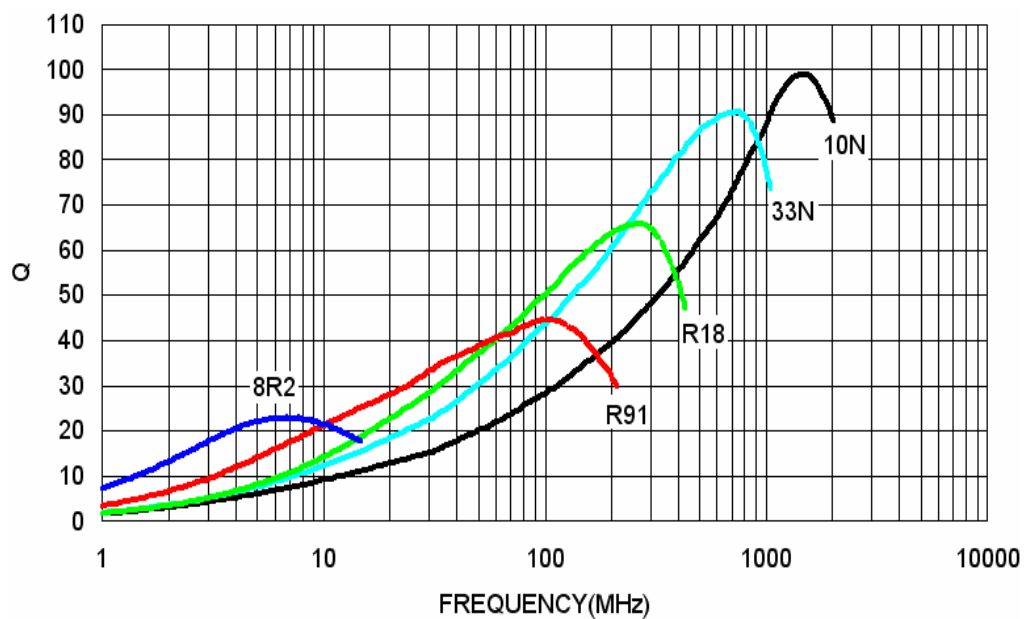
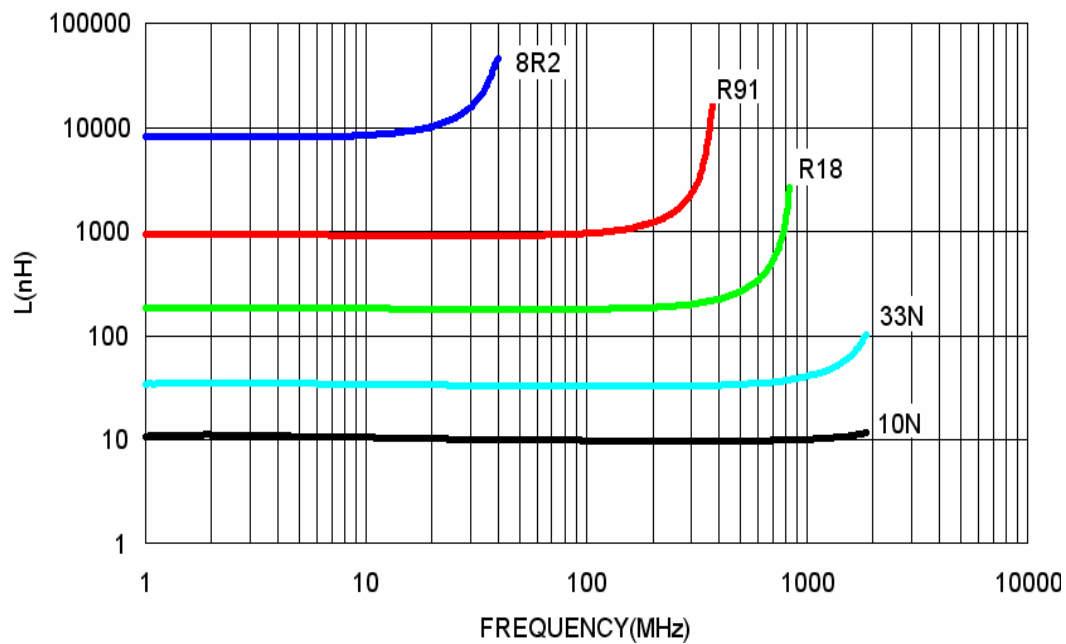
* Parts/Reel: 7" 2,000 Tape Width: 8mm

HEC1008-Series

High Frequency SMD Inductor for Signal Line

ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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