

HEC1008 -Series (1008) Ceramic type

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



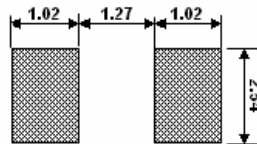
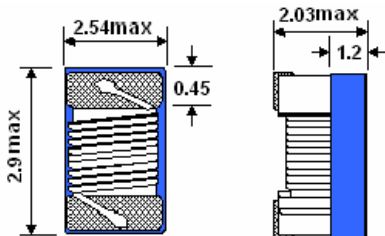
PRODUCT IDENTIFICATION

HEC 1008 - 10N J - E

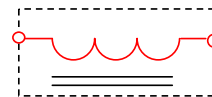
- (1) (2) (3) (4) (5)
- (1) Product name
 - (2) Shapes and Dimensions (LxW)
 - (3) Inductance : 10N:10nH, 3N3:3.3nH
 - (4) Tolerance: G:±2%, J:±5%,K:±10%
 - (5) E: Lead free Rohs compliant

SHAPES AND DIMENSIONS (mm)

RECOMMENDED FOOTPRINT



Equivalent circuit



No Polarity

HEC1008- Series (1008)

Our Product Part Number	Inductance (nH)/MHz	Inductance tolerance	Q Min.	SRF(Min.) (MHz)	Rdc(Ω) Max.	Irms(mA)	Color Coding		
							1st	2nd	3rd
HEC1008-10N□-E	10/50	G. J. K	50/500	4100	0.08	1000	Brown	Black	Black
HEC1008-12N□-E	12/50	G. J. K	50/500	3300	0.09	1000	Brown	Red	Black
HEC1008-15N□-E	15/50	G. J. K	45/500	2500	0.10	1000	Brown	Green	Black
HEC1008-18N□-E	18/50	G. J. K	50/350	2500	0.11	1000	Brown	Gray	Black
HEC1008-22N□-E	22/50	G. J. K	55/350	2400	0.12	1000	Red	Red	Black
HEC1008-27N□-E	27/50	G. J. K	55/350	1600	0.13	1000	Red	Violet	Black
HEC1008-33N□-E	33/50	G. J. K	60/350	1600	0.14	1000	Orange	Orange	Black
HEC1008-39N□-E	39/50	G. J. K	60/350	1500	0.15	1000	Orange	White	Black
HEC1008-47N□-E	47/50	G. J. K	65/350	1500	0.16	1000	Yellow	Violet	Black
HEC1008-56N□-E	56/50	G. J. K	65/350	1300	0.18	1000	Green	Blue	Black
HEC1008-68N□-E	68/50	G. J. K	65/350	1300	0.20	1000	Blue	Gray	Black
HEC1008-82N□-E	82/50	G. J. K	60/350	1000	0.22	1000	Gray	Red	Black
HEC1008-R10□-E	100/25	G. J. K	60/350	1000	0.56	650	Brown	Black	Brown
HEC1008-R12□-E	120/25	G. J. K	60/350	950	0.63	650	Brown	Red	Brown
HEC1008-R15□-E	150/25	G. J. K	45/100	850	0.70	580	Brown	Green	Brown
HEC1008-R18□-E	180/25	G. J. K	45/100	750	0.77	620	Brown	Gray	Brown
HEC1008-R22□-E	220/25	G. J. K	45/100	700	0.84	500	Red	Red	Brown
HEC1008-R27□-E	270/25	G. J. K	45/100	600	0.91	500	Red	Violet	Brown
HEC1008-R33□-E	330/25	G. J. K	45/100	570	1.05	450	Orange	Orange	Brown
HEC1008-R39□-E	390/25	G. J. K	45/100	500	1.12	470	Orange	White	Brown
HEC1008-R47□-E	470/25	G. J. K	45/100	450	1.19	470	Yellow	Violet	Brown
HEC1008-R56□-E	560/25	G. J. K	45/100	415	1.33	400	Green	Blue	Brown
HEC1008-R62□-E	620/25	G. J. K	45/100	375	1.40	300	Blue	Red	Brown
HEC1008-R68□-E	680/25	G. J. K	45/100	375	1.47	400	Blue	Gray	Brown
HEC1008-R75□-E	750/25	G. J. K	45/100	360	1.54	360	Violet	Green	Brown
HEC1008-R82□-E	820/25	G. J. K	45/100	350	1.61	400	Gray	Red	Brown
HEC1008-R91□-E	910/25	G. J. K	35/50	320	1.68	380	White	Brown	Brown
HEC1008-1R0□-E	1000/25	G. J. K	35/50	290	1.75	370	Brown	Black	Red
HEC1008-1R2□-E	1200/7.9	G. J. K	35/50	250	2.00	310	Brown	Red	Red
HEC1008-1R5□-E	1500/7.9	G. J. K	28/50	200	2.30	330	Brown	Green	Red
HEC1008-1R8□-E	1800/7.9	G. J. K	28/50	160	2.60	300	Brown	Gray	Red
HEC1008-2R2□-E	2200/7.9	G. J. K	28/50	160	2.80	280	Red	Red	Red
HEC1008-2R7□-E	2700/7.9	G. J. K	22/25	135	3.20	290	Red	Violet	Red
HEC1008-3R3□-E	3300/7.9	G. J. K	22/25	110	3.40	290	Orange	Orange	Red
HEC1008-3R9□-E	3900/7.9	G. J. K	20/25	100	3.60	260	Orange	White	Red
HEC1008-4R7□-E	4700/7.9	G. J. K	20/25	90	4.00	260	Yellow	Violet	Red
HEC1008-5R6□-E	5600/7.9	G. J. K	18/7.9	40	4.00	240	Green	Blue	Red
HEC1008-6R8□-E	6800/7.9	G. J. K	18/7.9	40	4.90	200	Blue	Gray	Red
HEC1008-8R2□-E	8200/7.9	G. J. K	18/7.9	25	6.00	170	Gray	Red	Red
HEC1008-100□-E	10000/2.5	G. J. K	18/7.9	25	8.00	150	Brown	Black	Orange

1. When ordering, please specify tolerance and packaging codes. Ex: HEC1008-R12J-E

Tolerance : G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$, Packaging : Clear tape and reel { standard }. *

2. L , Q : Agilent/HP E4991A+ Agilent/HP16197A

3. SRF : Agilent/E5071B / Agilent/HP E4991A

4. Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.

5. Irms for a 15°C rise above 25°C ambient.

6. Operating temperature range from -25°C to 85°C.

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



HEC1008 Characteristics (L,Q vs. Frequency)

