

WIRE WOUND INDUCTORS *For signal line*

Series HE - C



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

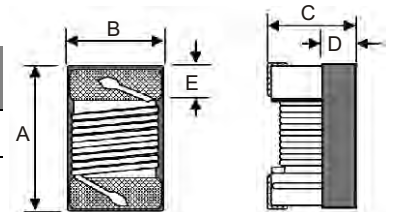
PRODUCT IDENTIFICATION

HE 10 C 08 2 J 10N
a b c d e f g

- a : Type of Products - High Frequency SMD Inductor for signal line
- b : Length - 10=2.9mm max.
- c : Materials - C - Design Code
- d : Width - 08=2.54mm max.
- e : Packing - PCS/REEL - 2 = 2000, 4 = 4000, K = 2500
- f : Tolerance - G : ±2%, J : ±5%, K : ±10%
- g : Inductance - 1N2 = 0.0012 μH, 100N = 0.1 μH, 1U = 1.0 μH, 1U2 = 1.2 μH

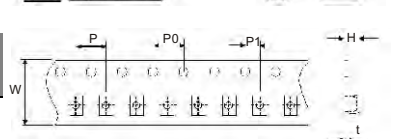
SHAPES & DIMENSIONS

Type	Alias in inch	A (max.)	B (max.)	C (max.)	D (ref.)	E (±0.1)
HE10C08	1008	2.90	2.54	2.03	1.30	0.45



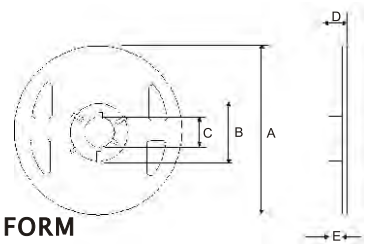
TAPE DIMENSIONS

Type	W	P	P ₀	P ₁	H	t
HE10C08	8	4	4	2	2	0.22

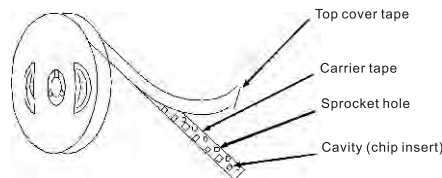


REEL DIMENSIONS

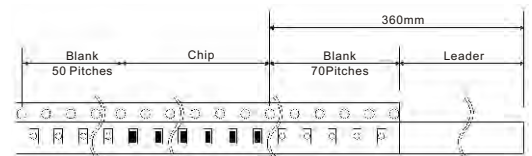
Type	Q'TY/REEL	A	B	C	D	E
HE10C08	2000 PCS	180	60	13	14.4	8.4



TAPPING FIGURE



PACKAGING FORM

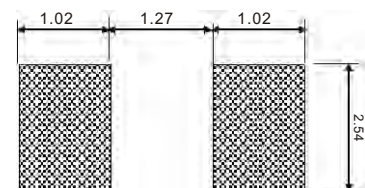


COVER TAPE PEEL STRENGTH

The force for tearing off cover tape is 0.1~0.6(N) in the arrow direction at the following conditions:
 Temperature : 5~35°C
 Humidity : 45~85%
 Atmospheric pressure : 860~1060 hpa



RECOMMENDED PATTERN



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ELECTRICAL CHARACTERISTICS

HE10C08

Part Number	Inductance (μ H)/MHz	Inductance tolerance	Q/MHz min.	SRF(MHz) min.	DCR(Ω) min.	I _{rms} (mA) min.	Color Coding		
							1st	2nd	3rd
HE10C082□4N7	0.0047/50	J, K	30/500	4300	0.065	1000	Black	Yellow	Volet
HE10C082□10N	0.010/50	G, J, K	50/500	4100	0.080	1000	Brown	Black	Black
HE10C082□12N	0.012/50	G, J, K	50/500	3300	0.090	1000	Brown	Red	Black
HE10C082□15N	0.015/50	G, J, K	50/500	2500	0.160	1000	Brown	Green	Black
HE10C082□18N	0.018/50	G, J, K	50/350	2500	0.110	1000	Brown	Gray	Black
HE10C082□22N	0.022/50	G, J, K	55/350	2400	0.120	1000	Red	Red	Black
HE10C082□27N	0.027/50	G, J, K	50/350	1600	0.130	1000	Red	Violet	Black
HE10C082□33N	0.033/50	G, J, K	60/350	1600	0.140	1000	Orange	Orange	Black
HE10C082□36N	0.036/50	G, J, K	60/350	1600	0.150	1000	Orange	Blue	Black
HE10C082□39N	0.039/50	G, J, K	60/350	1500	0.150	1000	Orange	White	Black
HE10C082□43N	0.043/50	G, J, K	65/350	1500	0.160	1000	Yellow	Orange	Black
HE10C082□47N	0.047/50	G, J, K	65/350	1500	0.160	1000	Yellow	Violet	Black
HE10C082□56N	0.056/50	G, J, K	65/350	1300	0.180	1000	Green	Blue	Black
HE10C082□68N	0.068/50	G, J, K	65/350	1300	0.200	1000	Blue	Gray	Black
HE10C082□75N	0.075/50	G, J, K	60/350	1000	0.210	1000	Violet	Green	Black
HE10C082□82N	0.082/50	G, J, K	60/350	1000	0.220	1000	Gray	Red	Black
HE10C082□91N	0.091/50	G, J, K	60/350	1000	0.280	1000	White	Brow	Black
HE10C082□100N	0.100/25	G, J, K	60/350	1000	0.560	650	Brown	Black	Brown
HE10C082□110N	0.110/25	G, J, K	60/350	950	0.560	650	Brown	Brown	Brown
HE10C082□120N	0.120/25	G, J, K	60/350	950	0.630	650	Brown	Red	Brown
HE10C082□150N	0.150/25	G, J, K	45/100	850	0.700	580	Brown	Green	Brown
HE10C082□180N	0.180/25	G, J, K	45/100	750	0.770	620	Brown	Gray	Brown
HE10C082□220N	0.220/25	G, J, K	45/100	700	0.840	500	Red	Red	Brown
HE10C082□240N	0.240/25	G, J, K	45/100	680	0.900	500	Red	Yellow	Brown
HE10C082□250N	0.250/25	G, J, K	45/100	650	0.900	500	Red	Green	Brown
HE10C082□270N	0.270/25	G, J, K	45/100	600	0.910	500	Red	Violet	Brown
HE10C082□300N	0.300/25	G, J, K	45/100	590	1.000	500	Orange	Black	Brown
HE10C082□320N	0.320/25	G, J, K	45/100	580	1.030	500	Orange	Red	Brown
HE10C082□330N	0.330/25	G, J, K	45/100	570	1.050	450	Orange	Orange	Brown
HE10C082□350N	0.350/25	G, J, K	45/100	550	1.070	450	Orange	Green	Brown
HE10C082□360N	0.360/25	G, J, K	45/100	520	1.100	470	Orange	Blue	Brown
HE10C082□390N	0.390/25	G, J, K	45/100	500	1.120	470	Orange	White	Brown
HE10C082□430N	0.430/25	G, J, K	45/100	470	1.150	470	Yellow	Orange	Brown
HE10C082□470N	0.470/25	G, J, K	45/100	450	1.190	470	Yellow	Violet	Brown
HE10C082□560N	0.560/25	G, J, K	45/100	415	1.330	400	Green	Blue	Brown
HE10C082□620N	0.620/25	G, J, K	45/100	375	1.400	300	Blue	Red	Brown
HE10C082□680N	0.680/25	G, J, K	45/100	375	1.470	400	Blue	Gray	Brown
HE10C082□750N	0.750/25	G, J, K	45/100	360	1.540	360	Violet	Green	Brown
HE10C082□820N	0.820/25	G, J, K	45/100	350	1.610	400	Gray	Red	Brown
HE10C082□860N	0.860/25	G, J, K	45/100	330	1.650	400	Gray	Blue	Brown
HE10C082□910N	0.910/25	G, J, K	35/50	320	1.680	380	White	Brown	Brown
HE10C082□1U	1.000/25	G, J, K	35/50	290	1.750	400	Brown	Black	Red
HE10C082□1U2	1.200/7.9	G, J, K	35/50	250	2.000	310	Brown	Red	Red
HE10C082□1U5	1.500/7.9	G, J, K	28/50	200	2.300	330	Brown	Green	Red

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ELECTRICAL CHARACTERISTICS

HE10C08

Part Number	Inductance (μ H)/MHz	Inductance tolerance	Q/MHz min.	SRF(MHz) min.	DCR(Ω) min.	Irms(mA) min.	Color Coding		
							1st	2nd	3rd
HE10C082□1U8	1.800/7.9	G, J, K	28/50	160	2.600	300	Brown	Gray	Red
HE10C082□2U2	2.200/7.9	G, J, K	28/50	160	2.800	280	Red	Red	Red
HE10C082□2U7	2.700/7.9	G, J, K	22/25	135	3.200	290	Red	Violet	Red
HE10C082□3U	3.000/7.9	G, J, K	22/25	110	3.300	290	Orange	Black	Red
HE10C082□3U3	3.300/7.9	G, J, K	22/25	110	3.400	290	Orange	Orange	Red
HE10C082□3U9	3.900/7.9	G, J, K	20/25	100	3.600	260	Orange	White	Red
HE10C082□4U7	4.700/7.9	G, J, K	20/25	90	4.000	260	Yellow	Violet	Red
HE10C082□5U6	5.600/7.9	G, J, K	18/7.9	40	4.200	240	Green	Blue	Red
HE10C082□6U8	6.800/7.9	G, J, K	18/7.9	40	4.900	200	Blue	Gray	Red
HE10C082□8U2	8.200/7.9	G, J, K	18/7.9	25	6.000	170	Gray	Red	Red
HE10C082□10U	10.00/2.5	G, J, K	18/7.9	25	8.000	150	Brown	Black	Orange

- When ordering, please specify tolerance and packaging codes. Ex: HE10C082K10U
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

