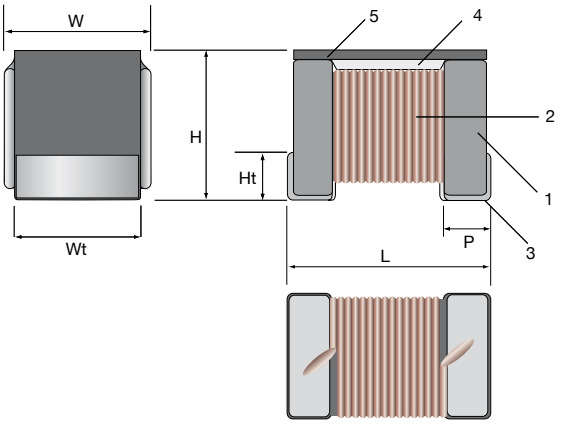
AIR CORE
WIREWOUND CHIP INDUCTOR
KQ 1008



STRUCTURE

1 Ceramic core
2 Winding wire
3 Electrode
4 Inner coat
5 Flat top film

IDENTIFICATION

PRODUCT CODE	BODY COLOR	MARKING
KQ 1008	Black	3 digit inductance code

Products with Pb-free terminations meet RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

KQ1008	T	TE	R39	J
PRODUCT CODE	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	TAPING* TE, BK *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits code (see rating table)	INDUCTANCE TOLERANCE

INDUCTORS

FEATURES

- Small chip inductors of air-core (wirewound type)
- High Q and high self-resonant frequency
- Low DC resistance and high allowable DC current
- Excellent mountability, solderability and high reliablity
- Suitable for high-frequency circuits in telecommunication equipment and mobile phones
- Operating temperature range: - 40° C ... +125° C
- Flat top suitable for high speed mounting
- Suitable for reflow soldering
- Lab Kit available

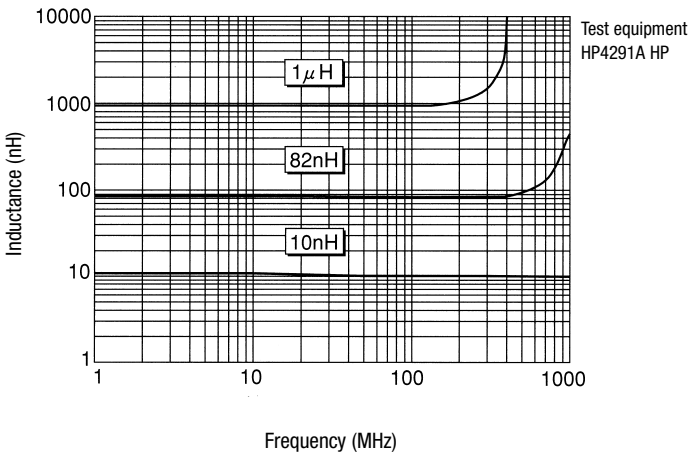
DIMENSIONS (mm)

PRODUCT CODE	L	W	H	Wt	Ht	P
KQ1008	2.5 ± 0.2	2.2 ± 0.2	1.8 $^{+0.2}_{-0}$	2.0 ± 0.1	0.45 ± 0.15	0.45 ± 0.1

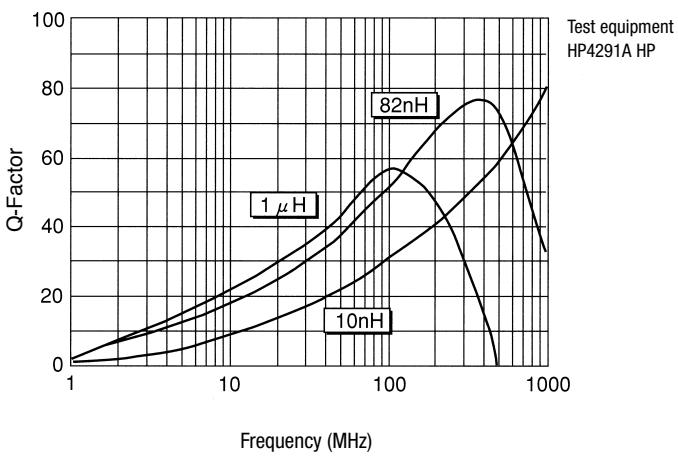
TYPICAL FREQUENCY CHARACTERISTICS

Test equipment: Agilent 4291A impedance analyzer

INDUCTANCE vs. FREQUENCY



Q-FACTOR vs. FREQUENCY



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RATING

TYPE	INDUCTANCE			QUALITY FACTOR		SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
	NOM. VALUE	FREQUENCY	TOLERANCE	Q (MIN.)	FREQUENCY			
KQ1008☐TE 10N ☐	10 nH	50 MHz	J (± 5%) K (± 10%) M (± 20%)	50	500 MHz	4100 MHz	0.08 Ω	1000 mA
KQ1008☐TE 12N ☐	12 nH					3300 MHz	0.09 Ω	
KQ1008☐TE 15N ☐	15 nH					3000 MHz	0.10 Ω	
KQ1008☐TE 18N ☐	18 nH				350 MHz	2500 MHz	0.11 Ω	
KQ1008☐TE 22N ☐	22 nH			55		2400 MHz	0.12 Ω	
KQ1008☐TE 27N ☐	27 nH					1600 MHz	0.13 Ω	
KQ1008☐TE 33N ☐	33 nH			60			0.14 Ω	
KQ1008☐TE 39N ☐	39 nH					1500 MHz	0.15 Ω	
KQ1008☐TE 47N ☐	47 nH			65			0.16 Ω	
KQ1008☐TE 56N ☐	56 nH		G (± 2%) J (± 5%) K (± 10%)			1300 MHz	0.18 Ω	
KQ1008☐TE 68N ☐	68 nH						0.20 Ω	
KQ1008☐TE 82N ☐	82 nH			60		1000 MHz	0.22 Ω	
KQ1008☐TE R10 ☐	0.10 µH	25 MHz					0.56 Ω	650 mA
KQ1008☐TE R12 ☐	0.12 µH					950 MHz	0.63 Ω	650 mA
KQ1008☐TE R15 ☐	0.15 µH			45	100 MHz	850 MHz	0.70 Ω	580 mA
KQ1008☐TE R18 ☐	0.18 µH					750 MHz	0.77 Ω	620 mA
KQ1008☐TE R22 ☐	0.22 µH					700 MHz	0.84 Ω	500 mA
KQ1008☐TE R27 ☐	0.27 µH					600 MHz	0.91 Ω	500 mA
KQ1008☐TE R33 ☐	0.33 µH					570 MHz	1.05 Ω	450 mA
KQ1008☐TE R39 ☐	0.39 µH					500 MHz	1.12 Ω	470 mA
KQ1008☐TE R47 ☐	0.47 µH					450 MHz	1.19 Ω	470 mA
KQ1008☐TE R56 ☐	0.56 µH					415 MHz	1.33 Ω	400 mA
KQ1008☐TE R62 ☐	0.62 µH					375 MHz	1.40 Ω	300 mA
KQ1008☐TE R68 ☐	0.68 µH					375 MHz	1.47 Ω	400 mA
KQ1008☐TE R75 ☐	0.75 µH					360 MHz	1.54 Ω	360 mA
KQ1008☐TE R82 ☐	0.82 µH					350 MHz	1.61 Ω	400 mA
KQ1008☐TE R91 ☐	0.91 µH			35	50 MHz	320 MHz	1.68 Ω	380 mA
KQ1008☐TE 1R0 ☐	1.0 µH					290 MHz	1.75 Ω	370 mA
KQ1008☐TE 1R2 ☐	1.2 µH	7.9 MHz				250 MHz	1.60 Ω	310 mA
KQ1008☐TE 1R5 ☐	1.5 µH			28		200 MHz	1.70 Ω	310 mA
KQ1008☐TE 1R8 ☐	1.8 µH					160 MHz	1.90 Ω	270 mA
KQ1008☐TE 2R2 ☐	2.2 µH					160 MHz	2.20 Ω	250 mA
KQ1008☐TE 2R7 ☐	2.7 µH			22	25 MHz	140 MHz	2.20 Ω	250 mA
KQ1008☐TE 3R3 ☐	3.3 µH					110 MHz	2.70 Ω	230 mA
KQ1008☐TE 3R9 ☐	3.9 µH			20		100 MHz	2.80 Ω	230 mA
KQ1008☐TE 4R7 ☐	4.7 µH					90 MHz	3.10 Ω	210 mA
KQ1008☐TE 5R6 ☐	5.6 µH			15	7.9 MHz	80 MHz	2.10 Ω	240 mA
KQ1008☐TE 6R8 ☐	6.8 µH					70 MHz	2.30 Ω	200 mA
KQ1008☐TE 8R2 ☐	8.2 µH					65 MHz	2.50 Ω	170 mA
KQ1008☐TE 100 ☐	10 µH					60 MHz	2.90 Ω	150 mA

☐ Enter the code for termination surface material (T, L)

TE = 2.000 pcs/reel

☐ Enter the code for inductance tolerance (G, J, K, M)