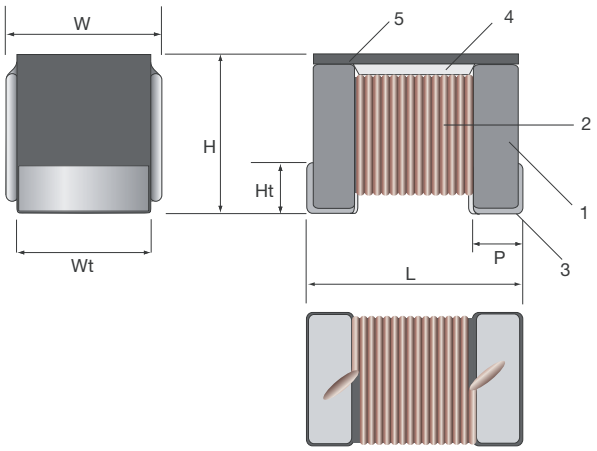
AIR CORE
WIREWOUND CHIP INDUCTOR KQ 1008



STRUCTURE

1 Ceramic core
2 Winding wire
3 Electrode (Ag/Pd + Ni + Sn/Pb)
4 Inner coat
5 Flat top film

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
KQ 1008	None	3 digit inductance code

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	KQ1008	J		TE	R39		
New Part No.	KQ1008		L	TE	R39	J	
	PRODUCT CODE	INDUCTANCE TOLERANCE	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	TAPING*	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	

*Please see "PACKAGING"

FEATURES

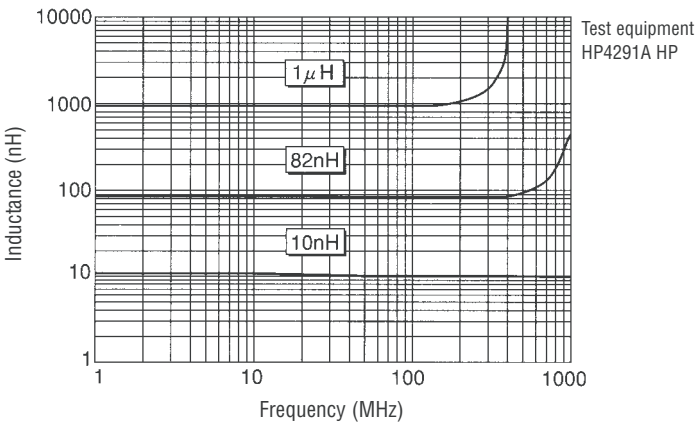
- Small chip inductors of air-core (wirewound type)
- High Q and high self-resonant frequency
- Excellent mountability, solderability and high reliablity
- Suitable for high-frequency circuits in telecommunication equipment and mobile phones
- Operating temperature range: - 40° C ... + 125° C
- Flat 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

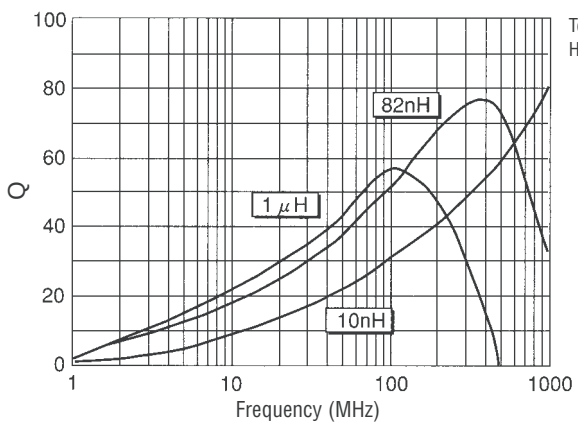
CHARACTERISTICS

INDUCTANCE vs. FREQUENCY



Test equipment HP4291A HP

Q-FACTOR vs. FREQUENCY



Test equipment HP4291A HP

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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			55	350 MHz	2500 MHz	0.11 Ω	
KQ1008 TE 22N	22 nH					2400 MHz	0.12 Ω	
KQ1008 TE 27N	27 nH			60		1600 MHz	0.13 Ω	
KQ1008 TE 33N	33 nH						0.14 Ω	
KQ1008 TE 39N	39 nH			65		1500 MHz	0.15 Ω	
KQ1008 TE 47N	47 nH						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	800 mA
KQ1008 TE R12	0.12 µH					950 MHz	0.63 Ω	
KQ1008 TE R15	0.15 µH			45	100 MHz	850 MHz	0.70 Ω	
KQ1008 TE R18	0.18 µH					750 MHz	0.77 Ω	750 mA
KQ1008 TE R22	0.22 µH					700 MHz	0.84 Ω	720 mA
KQ1008 TE R27	0.27 µH					600 MHz	0.91 Ω	690 mA
KQ1008 TE R33	0.33 µH					570 MHz	1.05 Ω	660 mA
KQ1008 TE R39	0.39 µH					500 MHz	1.12 Ω	630 mA
KQ1008 TE R47	0.47 µH					450 MHz	1.19 Ω	600 mA
KQ1008 TE R56	0.56 µH					415 MHz	1.33 Ω	580 mA
KQ1008 TE R62	0.62 µH					375 MHz	1.40 Ω	560 mA
KQ1008 TE R68	0.68 µH					375 MHz	1.47 Ω	540 mA
KQ1008 TE R75	0.75 µH					360 MHz	1.54 Ω	520 mA
KQ1008 TE R82	0.82 µH					350 MHz	1.61 Ω	500 mA
KQ1008 TE R91	0.91 µH			35	50 MHz	320 MHz	1.68 Ω	480 mA
KQ1008 TE 1R0	1.0 µH					290 MHz	1.75 Ω	460 mA
KQ1008 TE 1R2	1.2 µH	7.9 MHz				250 MHz	2.0 Ω	440 mA
KQ1008 TE 1R5	1.5 µH			28		200 MHz	2.3 Ω	420 mA
KQ1008 TE 1R8	1.8 µH					160 MHz	2.6 Ω	400 mA
KQ1008 TE 2R2	2.2 µH					160 MHz	2.8 Ω	380 mA
KQ1008 TE 2R7	2.7 µH			22	25 MHz	140 MHz	3.2 Ω	360 mA
KQ1008 TE 3R3	3.3 µH					110 MHz	3.4 Ω	350 mA
KQ1008 TE 3R9	3.9 µH			20		100 MHz	3.6 Ω	340 mA
KQ1008 TE 4R7	4.7 µH					90 MHz	4.0 Ω	330 mA
KQ1008 TE 5R6	5.6 µH			15	7.9 MHz	80 MHz	2.2 Ω	150 mA
KQ1008 TE 6R8	6.8 µH					70 MHz	2.5 Ω	150 mA
KQ1008 TE 8R2	8.2 µH					65 MHz	2.8 Ω	150 mA
KQ1008 TE 100	10 µH					60 MHz	3.2 Ω	150 mA