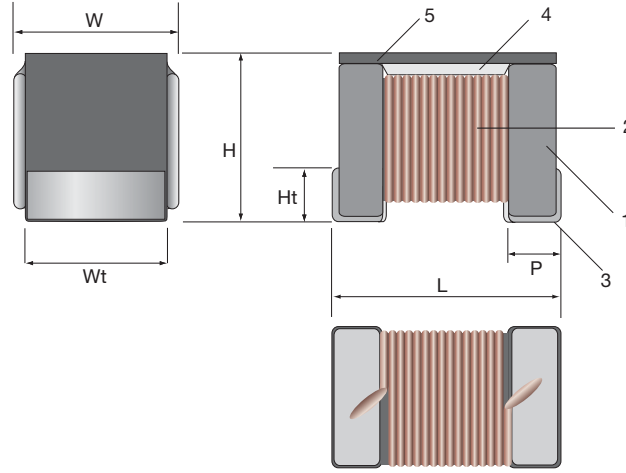
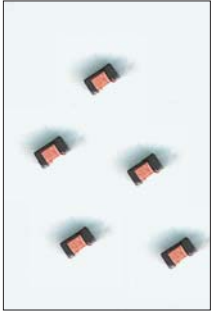


**AIR CORE
WIRED WOUND
CHIP INDUCTOR
KQ 0603**



STRUCTURE

- 1 Ceramic core (Ferrit content at $L \geq 330\text{nH}$)
- 2 Winding wire
- 3 Electrode
- 4 Inner coat
- 5 Flat top film



IDENTIFICATION

PRODUCT CODE	BODY COLOR	MARKING
KQ 0603	Black	1 digit

Products with Pb-free terminations meet RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	KQ0603	J	TE	R10		
New Part No. (Pb-free)	KQ0603		TE	R10	J	
	PRODUCT CODE	INDUCTANCE TOLERANCE	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	TAPING* TE, BK <small>*Please see "PACKAGING"</small>	NOMINAL INDUCTANCE 3 digits code (see rating table)	INDUCTANCE TOLERANCE G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$

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 reliability
- Suitable for high-frequency circuits in telecommunication equipment and mobile phones
- Operating temperature range: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- Flat top suitable for high speed mounting
- Suitable for reflow soldering
- Lab Kit available

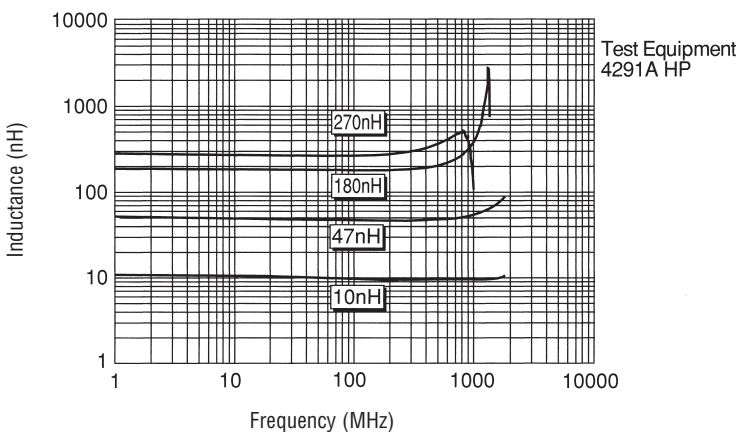
DIMENSIONS (mm)

PRODUCT CODE	L	W	H	Wt	Ht	P
KQ0603	1.6 ± 0.1	1.0 ± 0.1	0.9 ± 0.1	0.85 ± 0.1	0.25 ± 0.15	0.35 ± 0.1

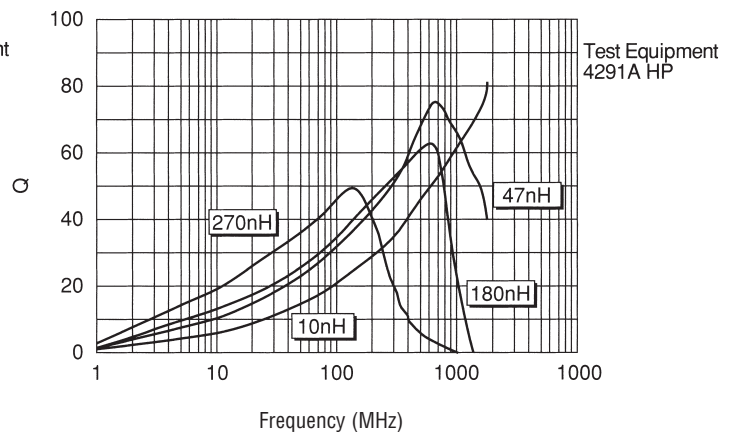
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

CHARACTERISTICS

INDUCTANCE vs. FREQUENCY



Q-FACTOR vs. FREQUENCY



AIR CORE WIREWOUND CHIP INDUCTOR, KQ 0603

RATING

TYPE	MARKING	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR (MIN.)	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)	L/Q-MEASURING FREQUENCY
KQ0603□□TE 1N6 □	C	1.6 nH	J (±5%) K (±10%)	24	12500 MHz	0.03 Ω	700 mA	250 MHz
KQ0603□□TE 1N8 □	0	1.8 nH		16		0.045 Ω		
KQ0603□□TE 3N3 □	X	3.3 nH		22	6900 MHz	0.055 Ω		
KQ0603□□TE 3N6 □	E	3.6 nH				0.063 Ω		
KQ0603□□TE 3N9 □	1	3.9 nH		20	5900 MHz	0.08 Ω		
KQ0603□□TE 4N3 □	F	4.3 nH				0.063 Ω		
KQ0603□□TE 4N7 □	G	4.7 nH		27	4800 MHz	0.116 Ω		
KQ0603□□TE 5N1 □	Y	5.1 nH				0.115 Ω		
KQ0603□□TE 6N8 □	2	6.8 nH		28	4600 MHz	0.11 Ω		
KQ0603□□TE 7N5 □	H	7.5 nH				0.106 Ω		
KQ0603□□TE 8N2 □	A	8.2 nH		31	4800 MHz	0.12 Ω		
KQ0603□□TE 8N7 □	J	8.7 nH				0.109 Ω		
KQ0603□□TE 9N5 □	B	9.5 nH		33	4000 MHz	0.125 Ω		
KQ0603□□TE 10N □	3	10 nH				0.13 Ω		
KQ0603□□TE 11N □	K	11 nH	35	3300 MHz	0.086 Ω			
KQ0603□□TE 12N □	4	12 nH			0.13 Ω			
KQ0603□□TE 15N □	5	15 nH	34	3100 MHz	0.17 Ω			
KQ0603□□TE 16N □	L	16 nH			0.104 Ω			
KQ0603□□TE 18N □	6	18 nH	38	2700 MHz	0.17 Ω			
KQ0603□□TE 22N □	7	22 nH			0.19 Ω			
KQ0603□□TE 23N □	S	23 nH	37	2650 MHz	0.15 Ω			
KQ0603□□TE 24N □	M	24 nH			0.135 Ω			
KQ0603□□TE 27N □	8	27 nH	40	2800 MHz	0.22 Ω			
KQ0603□□TE 30N □	N	30 nH			0.144 Ω			
KQ0603□□TE 33N □	9	33 nH	40	2250 MHz	0.22 Ω			
KQ0603□□TE 36N □	P	36 nH			0.22 Ω			
KQ0603□□TE 39N □	0	39 nH	38	2080 MHz	0.25 Ω			
KQ0603□□TE 43N □	Q	43 nH			0.28 Ω			
KQ0603□□TE 47N □	1	47 nH	40	2200 MHz	0.28 Ω			
KQ0603□□TE 51N □	T	51 nH			0.30 Ω			
KQ0603□□TE 56N □	2	56 nH	38	1900 MHz	0.31 Ω			
KQ0603□□TE 68N □	3	68 nH			0.34 Ω			
KQ0603□□TE 72N □	4	72 nH	37	1700 MHz	0.49 Ω			
KQ0603□□TE 82N □	5	82 nH			0.54 Ω			
KQ0603□□TE R10 □	6	100 nH	34	1400 MHz	0.58 Ω			
KQ0603□□TE R11 □	7	110 nH			0.58 Ω			
KQ0603□□TE R12 □	8	120 nH	32	1350 MHz	0.61 Ω			
KQ0603□□TE R15 □	9	150 nH			0.65 Ω			
KQ0603□□TE R18 □	0	180 nH	25	1300 MHz	1.4 Ω			
KQ0603□□TE R20 □	U	200 nH			2.2 Ω			
KQ0603□□TE R21 □	V	210 nH	24	1200 MHz	2.3 Ω			
KQ0603□□TE R22 □	1	220 nH			2.3 Ω			
KQ0603□□TE R25 □	W	250 nH	30	1000 MHz	2.5 Ω			
KQ0603□□TE R27 □	2	270 nH			2.4 Ω			
KQ0603□□TE R33 □	3	330 nH	24	900 MHz	2.3 Ω			
KQ0603□□TE R39 □	4	390 nH			3.0 Ω			
KQ0603□□TE R47 □	5	470 nH	30	800 MHz	3.7 Ω			
KQ0603□□TE R56 □	6	560 nH			3.0 Ω			
KQ0603□□TE R68 □	7	680 nH	30	700 MHz	3.7 Ω			
KQ0603□□TE R82 □	8	820 nH			3.7 Ω			
KQ0603□□TE R1R0 □	9	1000 nH	J (±5%) K (±10%)	640 MHz	1.21 Ω			
KQ0603□□TE R1R2 □	0	1200 nH			1.21 Ω			
				30	560 MHz	2.09 Ω	300 mA	150 MHz
					540 MHz	1.97 Ω		
					490 MHz	3.09 Ω	160 mA	100 MHz
					440 MHz	5.13 Ω		
					400 MHz	5.45 Ω	140 mA	50 MHz
							130 mA	
							120 mA	100 MHz
							170 mA	
							100 mA	100 MHz
							80 mA	
							190 mA	100 MHz
							130 mA	
							140 mA	50 MHz
							110 mA	
							90 mA	50 MHz
							80 mA	

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NEW

□ Enter the code for termination surface material (T, L)
□ Enter the code for inductance tolerance (G, J, K)

TE = 2.000 pcs/reel