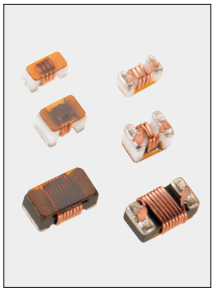
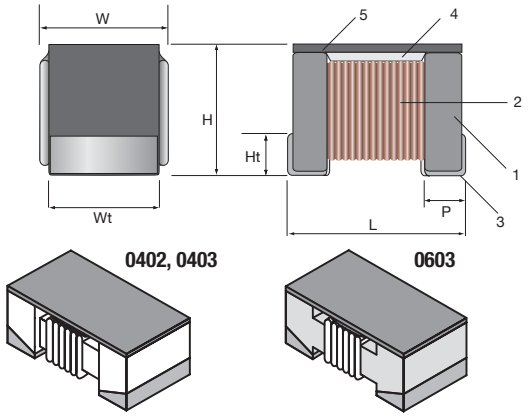
AIR CORE
WIREWOUND CHIP INDUCTOR HIGH CURRENT TYPE KQC





STRUCTURE

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

IDENTIFICATION

PRODUCT CODE	BODY COLOR	MARKING
KQC 0402, KQC 0403	White	None
KQC 0603	Black	

All these products have Pb-free terminations and meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

KQC	0603	T	TE	12N	J
PRODUCT CODE	SIZE 0402, 0403, 0603	TERMINATION SURFACE MATERIAL T: Sn	TAPING* TP, TD: 0402 TE: 0403, 0603 BK: Bulk *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digit code (see rating table)	INDUCTANCE TOLERANCE B: (±0.1nH) C: (±0.2nH) G: (±2%) J: (±5%)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

FEATURES

- Small chip inductors of air-core (wirewound type)
- Lower DC resistance and higher allowable DC current than the standard KQ-series
- High Q and high self-resonant frequency
- Excellent mountability, solderability and high reliablity
- Flat top suitable for high speed mounting
- Suitable for high-frequency circuits in telecommunication equipment, mobile phones and power amplification circuit
- Operating temperature range: - 40° C ... + 125° C
- Suitable for reflow soldering

DIMENSIONS (mm)

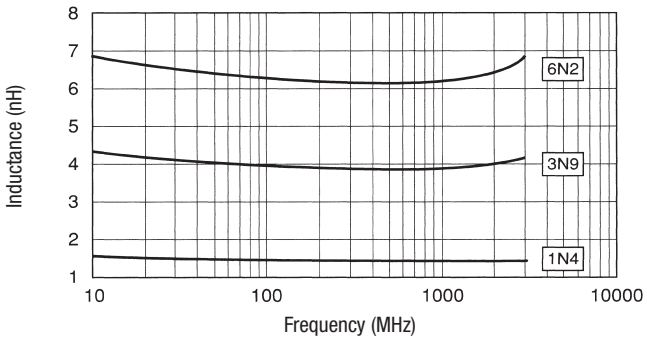
PRODUCT CODE	L	W	H	Ht	P
KQC 0402	1.0 ± 0.1	0.5 ± 0.1	0.55 ± 0.1	0.15 ± 0.10	0.2 ± 0.1
KQC 0403*	1.0 ± 0.1	0.75 ± 0.1	0.80 ± 0.1	0.15 ± 0.10	0.2 ± 0.1
KQC 0603	1.6 ± 0.1	1.05 ± 0.2	0.70 ± 0.1	0.20 ± 0.15	0.37 ± 0.1

* Under development

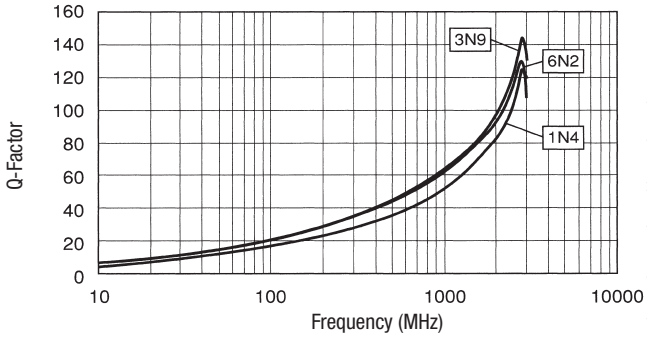
TYPICAL FREQUENCY CHARACTERISTICS

Test equipment: Agilent 4991A impedance analyzer (KQC 0402); Agilent 4291A impedance analyzer (KQC 0603)

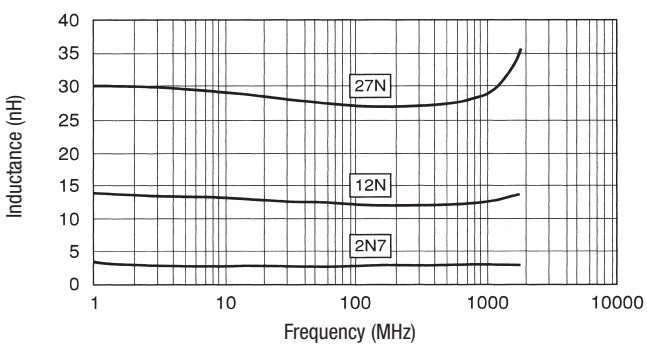
INDUCTANCE vs. FREQUENCY KQC 0402



Q-FACTOR vs. FREQUENCY KQC 0402



INDUCTANCE vs. FREQUENCY KQC 0603



Q-FACTOR vs. FREQUENCY KQC 0603