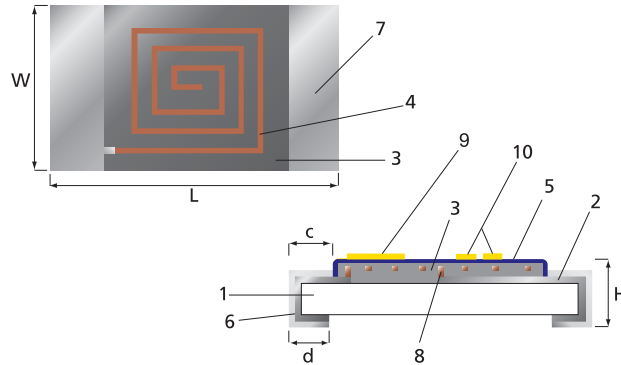


THIN FILM CHIP INDUCTOR KL73



STRUCTURE

- 1 Ceramic substrate
- 2 Cross electrode
- 3 Polyimide insulated film
- 4 Cu thin film coil pattern
- 5 Epoxy protection film
- 6 Ni barrier
- 7 Solder plating
- 8 Via hole
- 9 Direction mark
- 10 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
KL73 1H	Green	direction mark
KL73 1E		
KL73 1J, 2A	Dark blue	2 digits & direction mark
KL73 2B		3 digits & direction mark

Products with Pb-free terminations meet RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	KL73	2B	C
New Part No. (Pb-free)	KL73	2B	
	PRODUCT CODE	STYLE	INDUCTANCE TOLERANCE
		1H: 0201 1E: 0402 1J: 0603 2A: 0805 2B: 1206	

FEATURES

- Special thin-film multi-layer technology realizes low DCR and high Q
- High SRF and excellent characteristics for high frequency
- Low tolerance $\pm 2\%$ available
- Small size allows high density mounting (0201 ... 1206)
- Suitable for automobile telephone, cordless phones, pagers and other telecommunication equipment
- Operating temperature range: $-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$
- Suitable for reflow and wave soldering
- Lab Kit available

RATING

TYPE	MARKING	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR (MIN.)	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)	MEASURING FREQUENCY
KL73 1H T TB 0N6 □	—	0.6 nH	B (± 0.1 nH), C (± 0.2 nH)	5	9000 MHz	0.20 Ω	350 mA	500 MHz
KL73 1H T TB 0N7 B	—	0.7 nH	B (± 0.1 nH)					
KL73 1H T TB 0N8 □	—	0.8 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 0N9 B	—	0.9 nH	B (± 0.1 nH)					
KL73 1H T TB 1N0 □	—	1.0 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 1N1 B	—	1.1 nH	B (± 0.1 nH)					
KL73 1H T TB 1N2 □	—	1.2 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 1N3 B	—	1.3 nH	B (± 0.1 nH)					
KL73 1H T TB 1N5 □	—	1.5 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 1N6 B	—	1.6 nH	B (± 0.1 nH)					
KL73 1H T TB 1N8 □	—	1.8 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 2N0 B	—	2.0 nH	B (± 0.1 nH)					
KL73 1H T TB 2N2 □	—	2.2 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 2N4 B	—	2.4 nH	B (± 0.1 nH)					
KL73 1H T TB 2N7 □	—	2.7 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 3N0 B	—	3.0 nH	B (± 0.1 nH)					
KL73 1H T TB 3N3 □	—	3.3 nH	B (± 0.1 nH), C (± 0.2 nH)					
KL73 1H T TB 3N6 B	—	3.6 nH	B (± 0.1 nH)					
KL73 1H T TB 3N9 □	—	3.9 nH	B (± 0.1 nH), C (± 0.1 nH)					
KL73 1H T TB 4N3 B	—	4.3 nH	B (± 0.1 nH)					
KL73 1H T TB 4N7 □	—	4.7 nH	B (± 0.1 nH), C (± 0.1 nH)					
KL73 1H T TB 5N1 G	—	5.1 nH	G (± 2%)					
KL73 1H T TB 5N6 □	—	5.6 nH	G (± 2%), J(± 5%)					
KL73 1H T TB 6N2 G	—	6.2 nH	G (± 2%)					
KL73 1H T TB 6N8 □	—	6.8 nH	G (± 2%), J(± 5%)					
KL73 1H T TB 7N5 G	—	7.5 nH	G (± 2%)					
KL73 1H T TB 8N2 □	—	8.2 nH	G ±(2%), J(± 5%)					
KL73 1H T TB 9N1 G	—	9.1 nH	G (± 2%)					
KL73 1H T TB 10N □	—	10 nH	G ± (2%) J ± (5%)					
KL73 1H T TB 11N □	—	11 nH						
KL73 1H T TB 12N □	—	12 nH						
KL73 1H T TB 13N □	—	13 nH						
KL73 1H T TB 15N □	—	15 nH						
KL73 1H T TB 16N □	—	16 nH						
KL73 1H T TB 18N □	—	18 nH						
KL73 1H T TB 20N □	—	20 nH						
KL73 1H T TB 22N □	—	22 nH						
KL73 1H T TB 24N □	—	24 nH						
KL73 1H T TB 27N □	—	27 nH						
KL73 1H T TB 33N □	—	33 nH						
KL73 1H T TB 39N □	—	39 nH						

□ Enter the code for inductance tolerance (B, C, G, J) TB = 10.000 pcs/7" reel

THIN FILM CHIP INDUCTOR, KL73

RATING

TYPE	MARKING	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR (MIN.)	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)	MEASURING FREQUENCY
KL73 2B □ TE 2N2 C	2N2	2.2 nH	C (±0.2 nH)	25	9000 MHz	0.25 Ω	1000 mA	500 MHz
KL73 2B □ TE 2N7 C	2N7	2.7 nH			7000 MHz			
KL73 2B □ TE 3N3 C	3N3	3.3 nH			6000 MHz			
KL73 2B □ TE 3N9 C	3N9	3.9 nH		35	5000 MHz	0.50 Ω	900 mA	
KL73 2B □ TE 4N7 C	4N7	4.7 nH			4500 MHz			
KL73 2B □ TE 5N6 □	5N6	5.6 nH			4000 MHz			
KL73 2B □ TE 6N8 □	6N8	6.8 nH	G (±2%) J (±5%)	40	3500 MHz	1.00 Ω	800 mA	200 MHz
KL73 2B □ TE 8N2 □	8N2	8.2 nH			3000 MHz			
KL73 2B □ TE 10N □	10N	10 nH			2500 MHz			
KL73 2B □ TE 12N □	12N	12 nH		25	2000 MHz	2.00 Ω	500 mA	
KL73 2B □ TE 15N □	15N	15 nH			1500 MHz			
KL73 2B □ TE 18N □	18N	18 nH			1000 MHz			
KL73 2B □ TE 22N □	22N	22 nH		15	500 MHz	2.00 Ω	200 mA	
KL73 2B □ TE 27N □	27N	27 nH			400 MHz			
KL73 2B □ TE 33N □	33N	33 nH						
KL73 2B □ TE 39N □	39N	39 nH						
KL73 2B □ TE 47N □	47N	47 nH						
KL73 2B □ TE 56N □	56N	56 nH						
KL73 2B □ TE 68N □	68N	68 nH						
KL73 2B □ TE 82N □	82N	82 nH						
KL73 2B □ TE 100 □	100	100 nH						

□ Enter the code for termination surface material (T, L) TE = 4.000 pcs/7" reel

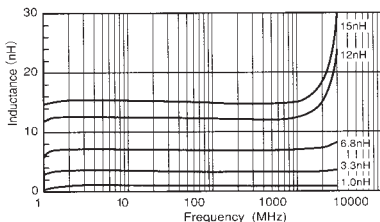
□ Enter the code for inductance tolerance (C, G, J)

TYPICAL FREQUENCY CHARACTERISTICS

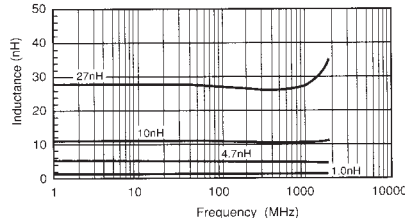
Test equipment: Agilent E4991A impedance analyzer (1H); HP4291B impedance analyzer (1E, 1J, 2A, 2B)

INDUCTANCE vs. FREQUENCY

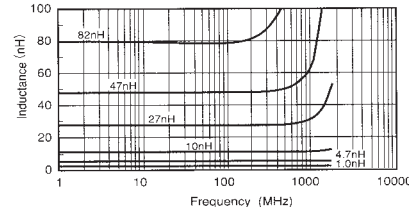
KL73 1H



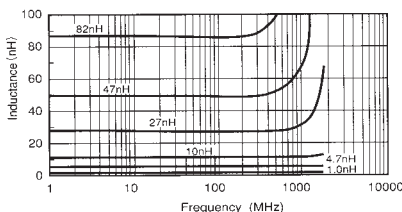
KL73 1E



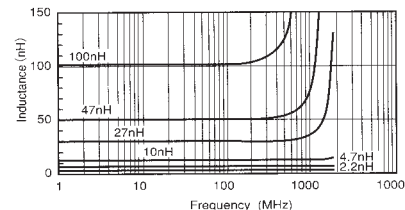
KL73 1J



KL73 2A

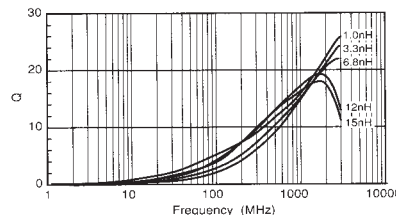


KL73 2B

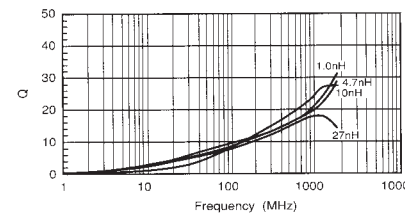


Q-FACTOR vs. FREQUENCY

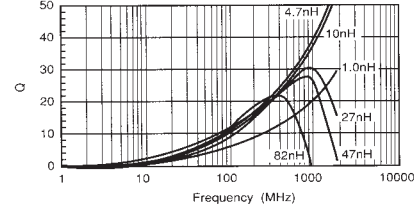
KL73 1H



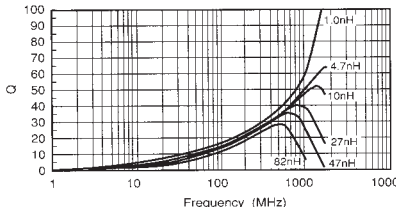
KL73 1E



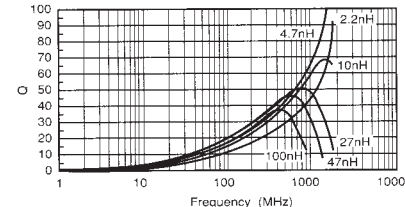
KL73 1J



KL73 2A



KL73 2B



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KOA Speer:

<u>KL731JLTE56NG</u>	<u>KL731JLTE6N8G</u>	<u>KL731JLTE1N8C</u>	<u>KL731JLTE15NJ</u>	<u>KL732ALTE3N9C</u>	<u>KL732ALTE2N2C</u>
<u>KL731JLTE2N2C</u>	<u>KL732ALTE4N7C</u>	<u>KL732ALTE10NJ</u>	<u>KL732ALTE1N0C</u>	<u>KL732ALTE39NG</u>	<u>KL731JLTE10NG</u>
<u>KL732ALTE15NG</u>	<u>KL732ALTE22NG</u>	<u>KL731JLTE4N7C</u>	<u>KL731JLTE12NJ</u>	<u>KL731JLTE39NJ</u>	<u>KL732ALTE8N2G</u>
<u>KL731JLTE18NG</u>	<u>KL731JLTE2N7C</u>	<u>KL731JLTE39NG</u>	<u>KL732ALTE82NJ</u>	<u>KL731JLTE1N0C</u>	<u>KL732ALTE6N8G</u>
<u>KL731JLTE1N5C</u>	<u>KL731JLTE5N6G</u>	<u>KL732ALTE22NJ</u>	<u>KL731JLTE27NG</u>	<u>KL731JLTE8N2G</u>	<u>KL732ALTE2N7C</u>
<u>KL732ALTE47NJ</u>	<u>KL732ALTE10NG</u>	<u>KL732ALTE18NJ</u>	<u>KL732ALTE5N6G</u>	<u>KL732ALTE1N2C</u>	<u>KL732ALTE33NG</u>
<u>KL732ALTE8N2J</u>	<u>KL731JLTE12NG</u>	<u>KL731JLTE3N3C</u>	<u>KL732ALTE3N3C</u>	<u>KL732ALTE15NJ</u>	<u>KL731JLTE33NG</u>
<u>KL732ALTE6N8J</u>	<u>KL731JLTE1N2C</u>	<u>KL732ALTE18NG</u>			