



Surface Mount Thin Film Inductors

- *Excellent for high frequency applications*
- *Low DC resistance and high Q*
- *Suitable for reflow and wave soldering*
- *Small size allows for high density mounting*



KL73 Series Specifications

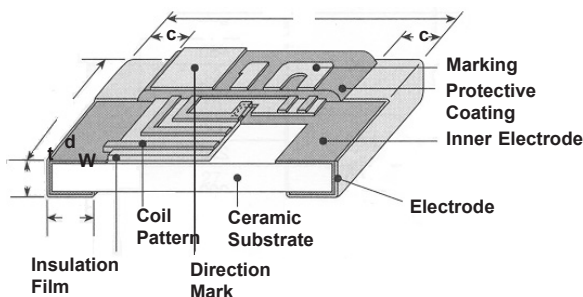
Part Number Determination

KL732ATTE4N7J					
KL73	2A	T	TE	4N7	J
SERIES	SIZE	TERMINATION	PACKAGING	INDUCTANCE	TOLERANCE
Thin Film Inductor	1H=0201 1E=0402 1J=0603 2A=0805 2B=1206	L=SnPb (Tin/Lead) T=Sn (100% Tin)	TP=2mm pitch, 7" embossed plastic tape (10,000/reel - 0402 only) TE=7" embossed plastic tape (4000/reel)	4N7=4.7nH 47N=47nH	B=±0.1nH C=±0.2nH G=±2% J=±5%

Package Dimensions (in/mm)

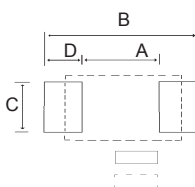
	L	W	c	d	t
1E (0402)	.039±.004 1.0±0.1	.02±.002 0.5±0.05	.006±.004 0.15±0.1	.01±.004 0.25±0.1	.014±.002 0.35±0.05
1J (0603)	.063±.008 1.6±0.2	.031±.004 0.8±0.1	.012±.004 0.3±0.1	.012±.004 0.3±0.1	.02±.004 0.5±0.1
2A (0805)	.079±.008 2.0±0.2	.049±.008 1.25±0.2	.016±.008 0.4±0.2	.012±.004 0.3±0.1	.02±.004 0.5±0.1

Construction



Land Pattern (mm)

Size	Component Size	A	B	C	D
1E(0402)	1.0X0.5	0.5	1.3	0.3	0.4
1J(0603)	1.6X0.8	1.0	2.0	0.6	0.5
2A(0805)	2.0X1.25	1.3	2.5	1.05	0.6



Marking

Inductance	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2	10	12	15	18	22	27	33	39	47	56	68	82
0402 Marking	<i>no marking</i>																							
0603 Marking	L1	L2	L3	L4	22	27	33	39	47	56	68	82	10	12	15	H1	H2	H3	H4	H5	H6	H7	H8	H9
0805 Marking	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2	10	12	15	18	22	27	33	39	47	56	68	82

(specifications continued on following page)

Engineering Design Kits Available

See Garrett Kit Catalog



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KL73 0402 & 0603 Series Specifications

Electrical Characteristics (0402)

Part Number	Case Size	Inductance nH	Inductance Tolerance (%)	Quality Factor (min)	Self Resonant Frequency Min MHz	DC Resistance Max (Ω)	Allowable DC Current Max (mA)	Measured Frequency (Mhz)
KL731ETTPN56B	0402	0.56	B: ±0.1nH	7	1400	0.10	700	500
KL731ETTPN68B		0.68						
KL731ETTPN82B		0.82						
KL731ETTP1N0*		1.0	B: ±0.1nH C: ±0.2nH	10	12000	0.15	650	
KL731ETTP1N2*		1.2						
KL731ETTP1N5*		1.5				10000	0.20	
KL731ETTP1N8*		1.8						
KL731ETTP2N2*		2.2				8000	0.25	
KL731ETTP2N7*		2.7						
KL731ETTP3N3*		3.3				6000	0.30	
KL731ETTP3N9*		3.9						
KL731ETTP4N7*		4.7				5000	0.50	
KL731ETTP5N6*		5.6						
KL731ETTP6N8*		6.8				4000	1.00	
KL731ETTP8N2*		8.2						
KL731ETTP10N*		10	G: ±2% J: ±5%	7	2500	1.50	300	
KL731ETTP12N*		12						
KL731ETTP15N*		15				2000	2.00	
KL731ETTP18N*		18						
KL731ETTP22N*		22				1500	3.00	
KL731ETTP27N*		27						
KL731ETTP33N*		33	1000	5.00				

Electrical Characteristics (0603)

Part Number	Case Size	Inductance nH	Inductance Tolerance (%)	Quality Factor (min)	Self Resonant Frequency Min MHz	DC Resistance Max (Ω)	Allowable DC Current Max (mA)	Measured Frequency (Mhz)
KL731JTTE1N0*	0603	1.0	C(±0.2nH)	10	13000	0.10	650	500
KL731JTTE1N2*		1.2		15				
KL731JTTE1N5*		1.5		20	10000	0.15	450	
KL731JTTE1N8*		1.8						
KL731JTTE2N2*		2.2				8000	0.25	
KL731JTTE2N7*		2.7						
KL731JTTE3N3*		3.3				6000	0.50	
KL731JTTE3N9*		3.9						
KL731JTTE4N7*		4.7		5000	0.50			
KL731JTTE5N6*		5.6						
KL731JTTE6N8*		6.8		4000	1.0			
KL731JTTE8N2*		8.2						
KL731JTTE10N*		10	G(±2%) J(±5%)	25	2500	1.00	250	
KL731JTTE12N*		12						
KL731JTTE15N*		15			2000	1.50		
KL731JTTE18N*		18						
KL731JTTE22N*		22			1500	1.50		
KL731JTTE27N*		27						
KL731JTTE33N*		33	10	1000	2.50	150		
KL731JTTE39N*		39						
KL731JTTE47N*		47			600	4.00		
KL731JTTE56N*		56						
KL731JTTE68N*		68			5.00	100		
KL731JTTE82N*		82						



Surface Mount Thin Film Inductors



KL73 0805 Series Specifications

Electrical Characteristics (0805)

Part Number	Case Size	Inductance nH	Inductance Tolerance (%)	Quality Factor (min)	Self Resonant Frequency Min MHz	DC Resistance Max (Ω)	Allowable DC Current Max (mA)	Measured Frequency (Mhz)
KL732ATTE1N0	0805	1.0	C(± 0.2 nH)	10	13000	0.25	900	500
KL732ATTE1N2		15						
KL732ATTE1N5		20		10000				
KL732ATTE1N8		25		1.8	9000			
KL732ATTE2N2				2.2	8000			
KL732ATTE2N7				2.7	6000			
KL732ATTE3N3				3.3				
KL732ATTE3N9				3.9				
KL732ATTE4N7				4.7	5000			
KL732ATTE5N6				5.6	4500			
KL732ATTE6N8			6.8	4000				
KL732ATTE8N2		8.2	3000					
KL732ATTE10N		10	G(± 2 %) J(± 5 %)	20	2500	0.50	700	
KL732ATTE12N		12			2000			
KL732ATTE15N		15			1500			
KL732ATTE18N		18			1000	1.50	250	
KL732ATTE22N		22						
KL732ATTE27N		27						
KL732ATTE33N		33			15	800	200	
KL732ATTE39N		39						
KL732ATTE47N		47			10	700	150	
KL732ATTE56N		56						
KL732ATTE68N		68						
KL732ATTE82N		82						