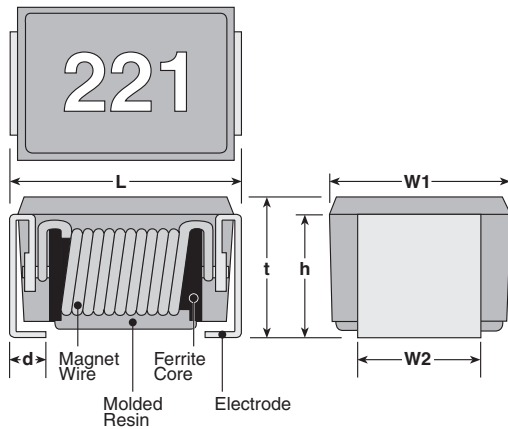




**features**

- UL94V0 molded epoxy case
- Operating temperature: -40°C ~ +100°C
- 1210 size - surface mount style
- High Q value achieved by wirewound structure
- Marking: Black body color with white marking
- Products with lead-free terminations meet EU RoHS requirements
- AEC-Q200 Qualified

**dimensions and construction**



Type	Dimensions inches (mm)					
	L	W1	W2	t	h	d
KL32	.126±.008 (3.2±0.2)	.098±.008 (2.5±0.2)	.067±.004 (1.7±0.1)	.087±.008 (2.2±0.2)	.075±.004 (1.9±0.1)	.02 nominal (.5 nominal)

**Inductance Marking**

Value	Code
0.005μH - 0.082μH	005 - 082
0.10μH - 8.2μH	R10 - 8R2 R indicates decimal point.
10μH - 330μH	100 - 331 1st two figures are significant, the last figure indicates the number of zeros to follow.

**ordering information**

New Part #	<b>KL</b>	<b>32</b>	<b>T</b>	<b>TE</b>	<b>101</b>	<b>J</b>
	Type	Size 1210 size	Termination Material T: Sn	Packaging TE: 7" embossed plastic TED: 10" embossed plastic (TE: 2,000 pieces/reel) (TED: 4,000 pieces/reel)	Nominal Inductance Reference inductance marking chart	Tolerance J: ±5% K: ±10% M: ±20%

For further information on packaging, please refer to Appendix A.

**applications and ratings**

Part Designation	Nominal Inductance (μH)	Inductance Tolerance	Quality Factor Minimum	Self Resonant Frequency Minimum (MHz)	DC Resistance Maximum (Ω)	Allowable DC Current Maximum (mA)	Measured Frequency (MHz)
KL32TTE005*	0.005	M: ±20%	11	2700	0.12	450	100
KL32TTE010*	0.010		15	2500	0.13		
KL32TTE012*	0.012		17	2300	0.14		
KL32TTE015*	0.015		19	2100	0.16		
KL32TTE018*	0.018		21	1900	0.18		
KL32TTE022*	0.022		23	1700	0.20		
KL32TTE027*	0.027	K: ±10% M: ±20%	25	1500	0.22		
KL32TTE033*	0.033		26	1400	0.24		
KL32TTE039*	0.039		27	1300	0.27		
KL32TTE047*	0.047		28	1200	0.30		
KL32TTE056*	0.056		26	1100	0.33		
KL32TTE068*	0.068		27	1000	0.36		
KL32TTE082*	0.082	J: ±5% K: ±10% M: ±20%	27	900	0.40		
KL32TTER10*	0.10		28	700	0.44		

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

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**applications and ratings (continued)**

Part Designation	Nominal Inductance (μH)	Inductance Tolerance	Quality Factor Minimum	Self Resonant Frequency Minimum (MHz)	DC Resistance Maximum (Ω)	Allowable DC Current Maximum (mA)	Measured Frequency (MHz)
KL32TTER12*	0.12	J: ±5% K: ±10% M: ±20%	30	500	0.22	450	25.2
KL32TTER15*	0.15			450	0.25		
KL32TTER18*	0.18			400	0.28		
KL32TTER22*	0.22			350	0.32		
KL32TTER27*	0.27			320	0.36		
KL32TTER33*	0.33			300	0.40		
KL32TTER39*	0.39			250	0.45		
KL32TTER47*	0.47			220	0.50		
KL32TTER56*	0.56			180	0.55		
KL32TTER68*	0.68			160	0.60		
KL32TTER82*	0.82			140	0.65		
KL32TTE1R0*	1.0			J: ±5% K: ±10% M: ±20%	30		
KL32TTE1R2*	1.2	100	0.75			390	
KL32TTE1R5*	1.5	85	0.85			370	
KL32TTE1R8*	1.8	80	0.90			350	
KL32TTE2R2*	2.2	75	1.0			320	
KL32TTE2R7*	2.7	70	1.1			290	
KL32TTE3R3*	3.3	60	1.2			260	
KL32TTE3R9*	3.9	55	1.3			250	
KL32TTE4R7*	4.7	50	1.5			220	
KL32TTE5R6*	5.6	47	1.6			200	
KL32TTE6R8*	6.8	43	1.8			180	
KL32TTE8R2*	8.2	40	2.0			170	
KL32TTE100*	10	36	2.1			150	2.52
KL32TTE120*	12	33	2.5			140	
KL32TTE150*	15	30	2.8			130	
KL32TTE180*	18	27	3.3			120	
KL32TTE220*	22	25	3.7			110	
KL32TTE270*	27	20	5.0			80	
KL32TTE330*	33	17	5.6			70	
KL32TTE390*	39	16	6.4			65	
KL32TTE470*	47	15	7.0	60			
KL32TTE560*	56	13	8.0	55			
KL32TTE680*	68	12	9.0	50	0.796		
KL32TTE820*	82	11	10	45			
KL32TTE101*	100	10	11	40			
KL32TTE121*	120	8	15	70			
KL32TTE151*	150	7	17	65			
KL32TTE181*	180	6	21	60			
KL32TTE221*	220	50	6	28			
KL32TTE271*	270		5	34			
KL32TTE331*	330						

\* Add tolerance character (J, K, M)

The operating temperature range of the coil (ambient temperature + self heating) must remain at +125°C or less

**Performance Characteristics**

Parameter	Requirements Maximum Limit	Δ L/L Δ Q/Q Typical	Test Method
Resistance to Soldering Heat	Δ L/L: ±3%	Δ L/L: ±1.5%	260°C ± 5°C, 10s ± 1s
Heat Shock	Δ L/L: ±5%	Δ L/L: ±1.1%	-25°C (1 hour)/ +100°C (1 hour) 100 cycles
Low Temperature Operation	Δ L/L: ±5%, Δ Q/Q: ±20%	Δ L/L: ±0.9% Δ Q/Q: ±5.0%	-40°C ± 2°C, 1000h
High Temperature Exposure	Δ L/L: ±5%, Δ Q/Q: ±30%	Δ L/L: ±0.8% Δ Q/Q: ±5.0%	100°C ± 2°C, 1000h
Moisture Exposure	Δ L/L: ±5%, Δ Q/Q: ±30%	Δ L/L: ±1.3% Δ Q/Q: ±5.2%	40°C ± 2°C, 90%~95%RH, 1000h
Resistance to Solvent	No damage and marking shall be legible	—	Accordance with MIL-STD-202F Method 215

For complete environmental specifications, please refer to [www.koaspeer.com](http://www.koaspeer.com)

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

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