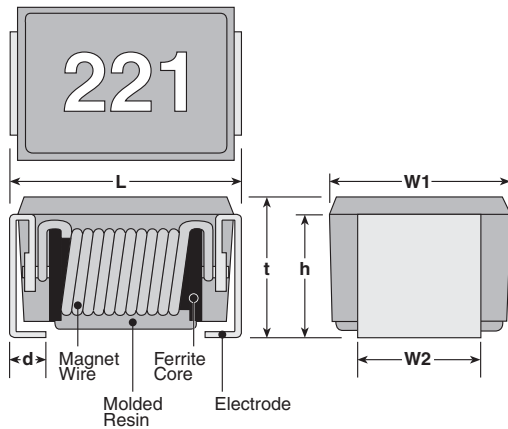




features

- 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 #	KL	32	T	TE	101	J
	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	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		K: ±10%	19	2100			0.16
KL32TTE018*	0.018			21	1900			0.18
KL32TTE022*	0.022			23	1700			0.20
KL32TTE027*	0.027	J: ±5% K: ±10% M: ±20%	25	1500	0.22			
KL32TTE033*	0.033			1400	0.24			
KL32TTE039*	0.039		26	1300	0.27			
KL32TTE047*	0.047			1200	0.30			
KL32TTE056*	0.056		27	1100	0.33			
KL32TTE068*	0.068			1000	0.36			
KL32TTE082*	0.082			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)

Inductors

Part Designation	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			120
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				
KL32TTE820*	82	11		45				
KL32TTE101*	100		10	40	0.796			
KL32TTE121*	120			11		70		
KL32TTE151*	150		8	15		65		
KL32TTE181*	180		7	17		60		
KL32TTE221*	220			21				
KL32TTE271*	270		6	28		50		
KL32TTE331*	330		5	34				

* Add tolerance character (J, K, M)

Performance Characteristics

Parameter	Requirements Maximum Limit	Δ L/L 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

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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Mouser Electronics

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