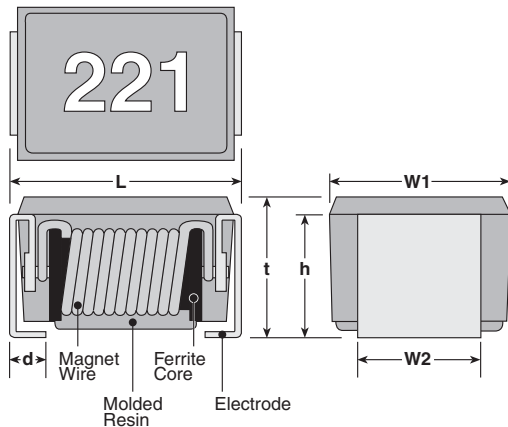




features

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

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	J: ±5% K: ±10% M: ±20%	30	140	0.65	400	7.96
KL32TTE1R0*	1.0			120	0.70		
KL32TTE1R2*	1.2			100	0.75		
KL32TTE1R5*	1.5			85	0.85		
KL32TTE1R8*	1.8			80	0.90		
KL32TTE2R2*	2.2			75	1.0		
KL32TTE2R7*	2.7			70	1.1		
KL32TTE3R3*	3.3			60	1.2		
KL32TTE3R9*	3.9			55	1.3		
KL32TTE4R7*	4.7			50	1.5		
KL32TTE5R6*	5.6			47	1.6	200	2.52
KL32TTE6R8*	6.8			43	1.8		
KL32TTE8R2*	8.2			40	2.0		
KL32TTE100*	10			36	2.1		
KL32TTE120*	12			33	2.5		
KL32TTE150*	15			30	2.8		
KL32TTE180*	18			27	3.3		
KL32TTE220*	22			25	3.7		
KL32TTE270*	27			20	5.0		
KL32TTE330*	33			17	5.6		
KL32TTE390*	39			16	6.4	50	0.796
KL32TTE470*	47			15	7.0		
KL32TTE560*	56			13	8.0		
KL32TTE680*	68			12	9.0		
KL32TTE820*	82			11	10		
KL32TTE101*	100			10	11		
KL32TTE121*	120			8	15		
KL32TTE151*	150			7	17		
KL32TTE181*	180			6	21		
KL32TTE221*	220			5	28		
KL32TTE271*	270			5	34		
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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