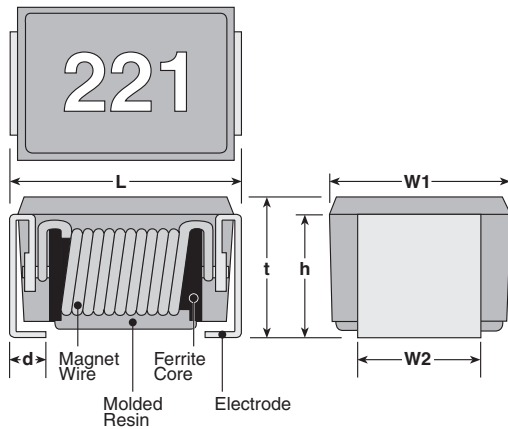




features

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

applications and ratings (continued)

Inductors

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

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

12/01/14

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