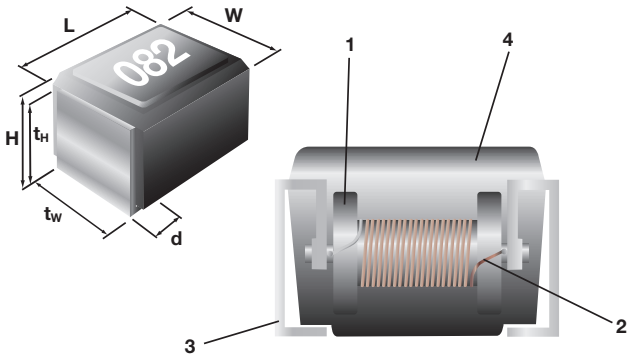
FERRITE CORE
WIREWOUND MOLDED CHIP INDUCTOR
LFC32 KL32[1)]



STRUCTURE

1 Ferrite core
2 Winding wire
3 Terminal (copper base)
4 Molded resin

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
LFC32 / KL32	Black	Silver 3 digit Inductance Code

Products with Pb-free terminations meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

LFC32 (KL32)[1)]	T	TE	R56	J
PRODUCT CODE	TERMINATION SURFACE MATERIAL T: Sn (L: Sn/Pb)	TAPING* TE, BK *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits (Unit: µH)	INDUCTANCE TOLERANCE J: (±5%) K: (±10%) M: (±20%)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

[1)] Type indication KL32 or LFC32 depends on measuring equipment only

Contact our sales representatives before you use our products for applications including automotives, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

FEATURES

- Excellent heat resistance and mechanical strength due to molded resin
- Wide inductance range due to five different ferrite materials
- Surface mount style with a footprint of „1210"
- Wide range of applications (video cameras, digital still cameras, car navigation systems, computer peripherals, mobile communications, car electronics, etc.)
- Operating temperature range: –40° C … +100° C
- Suitable for reflow, wave and iron soldering
- Lab Kit available

DIMENSIONS (mm)

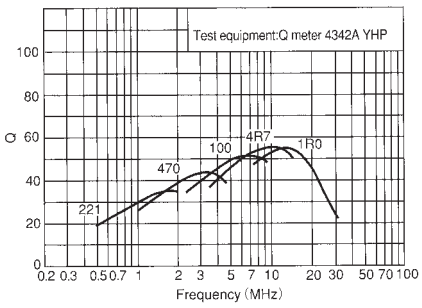
PRODUCT CODE	L	W	H	t_W	t_H	$d_{(nom)}$
LFC32	3.2 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	1.7 ± 0.1	1.9 ± 0.1	0.5

INDUCTANCE MEASURING EQUIPMENT

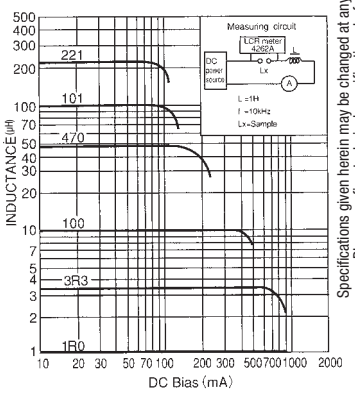
PRODUCT CODE	INDUCTANCE RANGE	EQUIPMENT
LFC 32	0.005 µH … 0.10 µH	Impedance analyser HP 4191 A
	0.12 µH … 330 µH	Q meter HP 4342 A
KL 32	0.005 µH … 8.2 µH	Impedance analyser HP 4191 A
	10 µH … 330 µH	Impedance analyser HP 4192 A

CHARACTERISTICS

Q vs. FREQUENCY



DC BIAS



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

FERRITE CORE
WIREWOUND MOLDED CHIP INDUCTOR
LFC32 KL32[1)]

RATING

TYPE	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR (MIN.)	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)	MEASURING FREQUENCY
LFC32☐TE 005 M	0.005 µH	M (±20%)	11	2700 MHz	0.12 Ω		
LFC32☐TE 010☐	0.010 µH		15	2500 MHz	0.13 Ω		
LFC32☐TE 012☐	0.012 µH		17	2300 MHz	0.14 Ω		
LFC32☐TE 015☐	0.015 µH	K (±10%)	19	2100 MHz	0.16 Ω		
LFC32☐TE 018☐	0.018 µH	M (±20%)	21	1900 MHz	0.18 Ω		
LFC32☐TE 022☐	0.022 µH		23	1700 MHz	0.20 Ω		
LFC32☐TE 027☐	0.027 µH			1500 MHz	0.22 Ω		
LFC32☐TE 033☐	0.033 µH		25	1400 MHz	0.24 Ω		100 MHz
LFC32☐TE 039☐	0.039 µH			1300 MHz	0.27 Ω		
LFC32☐TE 047☐	0.047 µH		26	1200 MHz	0.30 Ω		
LFC32☐TE 056☐	0.056 µH			1100 MHz	0.33 Ω		
LFC32☐TE 068☐	0.068 µH		27	1000 MHz	0.36 Ω		
LFC32☐TE 082☐	0.082 µH			900 MHz	0.40 Ω	450 mA	
LFC32☐TE R10☐	0.10 µH		28	700 MHz	0.44 Ω		
LFC32☐TE R12☐	0.12 µH			500 MHz	0.22 Ω		
LFC32☐TE R15☐	0.15 µH			450 MHz	0.25 Ω		
LFC32☐TE R18☐	0.18 µH			400 MHz	0.28 Ω		
LFC32☐TE R22☐	0.22 µH			350 MHz	0.32 Ω		
LFC32☐TE R27☐	0.27 µH			320 MHz	0.36 Ω		
LFC32☐TE R33☐	0.33 µH			300 MHz	0.40 Ω		25.2 MHz
LFC32☐TE R39☐	0.39 µH			250 MHz	0.45 Ω		
LFC32☐TE R47☐	0.47 µH			220 MHz	0.50 Ω		
LFC32☐TE R56☐	0.56 µH			180 MHz	0.55 Ω		
LFC32☐TE R68☐	0.68 µH			160 MHz	0.60 Ω		
LFC32☐TE R82☐	0.82 µH			140 MHz	0.65 Ω		
LFC32☐TE 1R0☐	1.0 µH			120 MHz	0.70 Ω	400 mA	
LFC32☐TE 1R2☐	1.2 µH			100 MHz	0.75 Ω	390 mA	
LFC32☐TE 1R5☐	1.5 µH			85 MHz	0.85 Ω	370 mA	
LFC32☐TE 1R8☐	1.8 µH			80 MHz	0.90 Ω	350 mA	
LFC32☐TE 2R2☐	2.2 µH	J (±5%)	30	75 MHz	1.0 Ω	320 mA	
LFC32☐TE 2R7☐	2.7 µH	K (±10%)		70 MHz	1.1 Ω	290 mA	
LFC32☐TE 3R3☐	3.3 µH	M (±20%)		60 MHz	1.2 Ω	260 mA	7.96 MHz
LFC32☐TE 3R9☐	3.9 µH			55 MHz	1.3 Ω	250 mA	
LFC32☐TE 4R7☐	4.7 µH			50 MHz	1.5 Ω	220 mA	
LFC32☐TE 5R6☐	5.6 µH			47 MHz	1.6 Ω	200 mA	
LFC32☐TE 6R8☐	6.8 µH			43 MHz	1.8 Ω	180 mA	
LFC32☐TE 8R2☐	8.2 µH			40 MHz	2.0 Ω	170 mA	
LFC32☐TE 100☐	10 µH			36 MHz	2.1 Ω	150 mA	
LFC32☐TE 120☐	12 µH			33 MHz	2.5 Ω	140 mA	
LFC32☐TE 150☐	15 µH			30 MHz	2.8 Ω	130 mA	
LFC32☐TE 180☐	18 µH			27 MHz	3.3 Ω	120 mA	
LFC32☐TE 220☐	22 µH			25 MHz	3.7 Ω	110 mA	
LFC32☐TE 270☐	27 µH			20 MHz	5.0 Ω	80 mA	
LFC32☐TE 330☐	33 µH			17 MHz	5.6 Ω	70 mA	2.52 MHz
LFC32☐TE 390☐	39 µH			16 MHz	6.4 Ω	65 mA	
LFC32☐TE 470☐	47 µH			15 MHz	7.0 Ω	60 mA	
LFC32☐TE 560☐	56 µH			13 MHz	8.0 Ω	55 mA	
LFC32☐TE 680☐	68 µH			12 MHz	9.0 Ω	50 mA	
LFC32☐TE 820☐	82 µH			11 MHz	10 Ω	45 mA	
LFC32☐TE 101☐	100 µH			10 MHz		40 mA	
LFC32☐TE 121☐	120 µH				11 Ω	70 mA	
LFC32☐TE 151☐	150 µH			8 MHz	15 Ω	65 mA	
LFC32☐TE 181☐	180 µH		20	7 MHz	17 Ω	60 mA	0.796 MHz
LFC32☐TE 221☐	220 µH				21 Ω		
LFC32☐TE 271☐	270 µH			6 MHz	28 Ω	50 mA	
LFC32☐TE 331☐	330 µH			5 MHz	34 Ω		

☐ Enter the code for termination surface material (T, L) ☐ Enter the code for inductance tolerance (J, K, M)

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