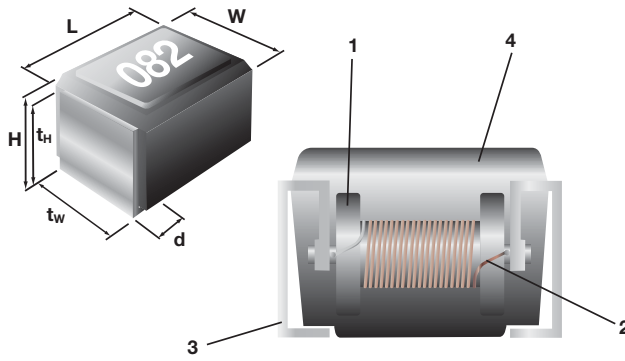


**FERRITE CORE
WIREWOUND MOLDED
CHIP INDUCTOR
LFC32 KL32¹⁾**



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 RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	LFC32 (KL32) ¹⁾	J	TE	R56	
New Part No. (Pb-free)	LFC32 (KL32) ¹⁾	C	TE	R56	J
PRODUCT CODE	TERMINATION SURFACE MATERIAL	INDUCTANCE TOLERANCE	TAPING* TE, BK	NOMINAL INDUCTANCE 3 digits (Unit: μH)	INDUCTANCE TOLERANCE
	C: SnCu L: Sn/Pb		*Please see "PACKAGING"		J: $\pm 5\%$ K: $\pm 10\%$ M: $\pm 20\%$

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

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, mobile communications, car electronics, computer systems etc.)
- Operating temperature range: $-40^{\circ}\text{C} \dots +100^{\circ}\text{C}$
- Suitable for reflow, wave and iron soldering
- Lab Kit available

DIMENSIONS (mm)

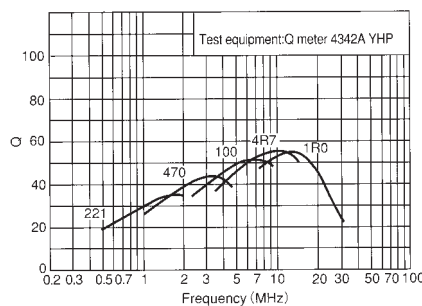
PRODUCT CODE	L	W	H	t _w	t _H	d(nom)
LFC32	3.2 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	1.7 ± 0.1	1.9 ± 0.1	0.5

INDUCTANCE MEASURING EQUIPMENT

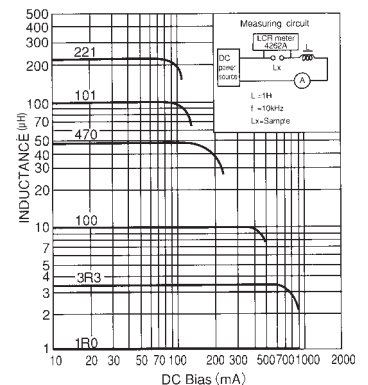
PRODUCT CODE	INDUCTANCE RANGE	EQUIPMENT
LFC 32	0.005 μH ... 0.10 μH 0.12 μH ... 330 μH	Impedance analyser HP 4191 A Q meter HP 4342 A
KL 32	0.005 μH ... 8.2 μH 10 μH ... 330 μH	Impedance analyser HP 4191 A Impedance analyser HP 4192 A

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 and/or use.

FERRITE CORE WIREWOUND MOLDED CHIP INDUCTOR LFC32 KL32¹⁾

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	450 mA	100 MHz			
LFC32 □ TE 010 □	0.010 μH	K (±10%) M (±20%)	15	2500 MHz	0.13 Ω					
LFC32 □ TE 012 □	0.012 μH		17	2300 MHz	0.14 Ω					
LFC32 □ TE 015 □	0.015 μH		19	2100 MHz	0.16 Ω					
LFC32 □ TE 018 □	0.018 μH		21	1900 MHz	0.18 Ω					
LFC32 □ TE 022 □	0.022 μH		23	23	1700 MHz			0.20 Ω		
LFC32 □ TE 027 □	0.027 μH				1500 MHz			0.22 Ω		
LFC32 □ TE 033 □	0.033 μH				1400 MHz			0.24 Ω		
LFC32 □ TE 039 □	0.039 μH				1300 MHz			0.27 Ω		
LFC32 □ TE 047 □	0.047 μH				26			26	1200 MHz	0.30 Ω
LFC32 □ TE 056 □	0.056 μH								1100 MHz	0.33 Ω
LFC32 □ TE 068 □	0.068 μH	27			27			1000 MHz	0.36 Ω	
LFC32 □ TE 082 □	0.082 μH							900 MHz	0.40 Ω	
LFC32 □ TE R10 □	0.10 μH		28	28				700 MHz	0.44 Ω	
LFC32 □ TE R12 □	0.12 μH							500 MHz	0.22 Ω	
LFC32 □ TE R15 □	0.15 μH		25.2 MHz	25.2 MHz				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	
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	J (±5%) K (±10%) M (±20%)	30	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			75 MHz	1.0 Ω	320 mA				
LFC32 □ TE 2R7 □	2.7 μH			70 MHz	1.1 Ω	290 mA				
LFC32 □ TE 3R3 □	3.3 μH			60 MHz	1.2 Ω	260 mA				
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						
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	0.796 MHz	20	10 MHz	11 Ω	40 mA				
LFC32 □ TE 121 □	120 μH			10 MHz	11 Ω	70 mA				
LFC32 □ TE 151 □	150 μH			8 MHz	15 Ω	65 mA				
LFC32 □ TE 181 □	180 μH			7 MHz	7 MHz	17 Ω	60 mA			
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					

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INDUCTORS

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

¹⁾ Type Indication KL32 or LFC32 depends on measuring equipment only

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